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SEVENTH ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

TO THE

COMMON COUNCIL

OF THE

CITY OF CHICAGO,

FOR THE

MUNICIPAL FISCAL YEAR ENDING MARCH 31st, 1868.



CHICAGO:

PRESS OF JAMESON & MORSE, 12 & 14 LA SALLE STREET.
1869.

BOARD OF PUBLIC WORKS.

MEMBERS OF THE BOARD:

A. H. BURLEY, COMMISSIONER AND PRESIDENT.

JOHN McARTHUR, COMMISSIONER AND TREASURER.

W. H. CARTER, COMMISSIONER.

WILLIAM GOODING,)
ROSWELL B. MASON,)

MEMBERS ACTING ONLY IN MATTERS PERTAINING
TO CLEANSING CHICAGO RIVER.

OFFICERS:

A. W. TINKHAM, SECRETARY.

E. S. CHESBROUGH, CITY ENGINEER.

COMMISSIONERS' REPORT.

OFFICE OF THE BOARD OF PUBLIC WORKS, }
CHICAGO, October 1st, 1868. }

To the Mayor and Aldermen of the City of Chicago, in Common Council assembled :

The Board of Public Works submit herewith to the Common Council their report for the municipal fiscal year ending March 31st, 1868.

At the commencement of the year the Board was organized anew, consisting of Commissioners Gindele, Burley and McArthur. At the close of the calendar year Commissioner Gindele resigned, and Commissioner Carter was appointed by your honorable body to succeed him.

The Board report on the various interests entrusted to their charge in the order usually followed in previous reports.

WATER WORKS.

LAKE TUNNEL.

The Lake Tunnel, which was already in successful operation at the beginning of the year, has since continued to perform its functions without interruption. Although the clearness of the water has been at times slightly affected by storms, and the temperature of the lake in midsummer was higher than was anticipated, the uniform good quality of the water has been a subject

of general congratulation with the citizens. Perhaps this may account, in part, for the extraordinary increase in the amount of water required for the supply of the city over that for previous years. The average daily consumption of the previous year was 8,681,536 gallons; of the present—the one to which this report applies—11,560,730 gallons. The total amount supplied during the previous year was 3,168,760,609 gallons, and during the present 4,231,791,659 gallons.

The increase, about 33 per cent., is so great as to show that very soon the consumption will reach what the engines may be safely relied on to supply. The aggregate maximum capacity of these engines has been estimated at a daily supply of 38,000,000 gallons. But it is safe to rely upon the engines for only a portion of their aggregate power. It cannot be considered an excessive precaution to require that the maximum pumping capacity shall be at least double that required for ordinary use. Other cities, at vast expense, construct reservoirs in their midst and store up water for emergencies. The city of Chicago has the water at its door, but it must store up the power by which it is to be elevated. The consumption is unequal at different times, so that while the power may be abundant for ordinary use, it may at times be insufficient from some extraordinary cause, as in the case of fire; and the machinery is, moreover, liable to accidents and derangement. The pumping power of the Water Works of this city ought, hence, to be always largely in excess of what is necessary for the average use of the water. The continually increasing consumption shows that it is time already to prepare for additional engines. The growth of the pumping department of the Water Works must keep pace with the extension of the pipes and with the growth of the city.

ENLARGED WORKS.

Extensive and important additions and improvements to the works were made during the year.

During the year the engine room of the new pumping works was finished. For commodiousness and beauty, it has few equals. The finished works, it is believed, will compare favorably with any in our country.

The gate-chamber—a circular room or well of masonry connected on the lake side with the main tunnel and a short branch tunnel, and on the opposite side by tunnels with the various pumping wells of the new works—was finished, with its connections with the north and the old or central pump well.

The new engines were finished and put in operation the earlier part of the year, and have since been in use, working efficiently and satisfactorily.

The new machine shop of the Water Works, a substantial and good sized two story brick building, was finished and occupied. Here are constructed and repaired all the hydrants and stop-cocks in use on the works. Most of the miscellaneous work of wood and iron is also done here. The shop is not only a great convenience, but is also a source of economy.

WATER PIPES LAID.

A large amount of distributing water pipes was laid, as follows:

In the South Division.....	25,488 feet.
“ “ West “	76,142 “
“ “ North “	26,889 “

Total 128,519 feet,
or $24\frac{34}{100}$ miles, (about what constituted the total amount of water pipes in the original plan of the Chicago Water Works in 1852.)

These additions make the total amount of water pipes laid in the city 179 miles 2,071 feet.

The supply in the northwest part of the city has been much improved by the extension of the sixteen inch main on Chicago Avenue, between Union and Carpenter Streets.

FIRE HYDRANTS.

One hundred and twenty-nine were added during the year, making the total number in connection with the works nine hundred and nineteen.

TAPPING OF THE WATER PIPES.

The number of taps inserted was larger than in any previous year. The numbers and sizes being as follows, viz:

1 inch	107
$\frac{3}{4}$ "	225
$\frac{5}{8}$ "	818
$\frac{1}{2}$ "	3,231
<hr/>	
Total.....	4,381

WATER RENTS.

Deducting \$96.16 for water tax refunded, the total amount collected was..... \$337,371.77
 The profits of tapping the pipes amounted to..... 1,557.51

Total income for year ending March 31st, 1868.... \$338,929.28

A considerable portion of the water rents is obtained from meter rates.

The city, at the close of the year reported on, had on hand 275 Meters, 91 of which were added during the year. All are the Worthington Water Meters.

Their various sizes and corresponding numbers are shown in the statement below.

$\frac{5}{8}$ inch Meters on hand.....	38
1 " " "	94
$1\frac{1}{2}$ " " "	30
2 " " "	69
3 " " "	41
4 " " "	3

Total number of Meters on hand 275

Of the total number on hand, 253 were in use at the close of the year.

The total supply to the city during the year, for all purposes, amounted to 4,231,791,659 gallons. About one-tenth of the whole amount, or 409,167,500 gallons, was measured and paid for by meters yielding an average revenue of 17 cents per thousand gallons, and a total as shown below.

Meter rates, South Division.....	\$29,737.00
“ West “	28,605.00
“ North “	11,686.00
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Total water tax, determined by Meters, for year ..	\$70,028.00

WORKING EXPENSES AND NET REVENUE.

Expenses at the Pumping Works (including some portion of the previous year's expenses).....	59,236.22
Expenses connected with Lake Tunnel and Crib....	4,825.36
Repairs of Pipes, Hydrants, &c., and miscellaneous operating expenses	33,660.71
Water Meters, current expenses, repairs, depreciation, &c.	4,107.31
Salaries of Board and Officers, office rent, and all salaries and expenses pertaining to the Water Office, and the assessment and collection of water rents...	27,530.04
Interest on Bonds and temporary loans, including \$3,737.74 transferred from discount account	155,228.25
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Total interest and operating expenses	\$284,587.89
Income from Water Rents, as stated above.....	\$338,929.28
Deduct interest and expenses	284,587.89
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Net revenue	\$54,341.39

COST OF ADDITIONS TO THE WORKS DURING THE YEAR.

24- ³⁴ / ₁₀₀ miles of Water Pipes	\$246,420.53
Temporary connection with Lake Tunnel.....	993.08
New Engines, expenditures during the year.....	29,317.59
New Pumping Well, South side of Engine House...	5,562.40
Gate Chamber and connection	7,283.35
New Tower	53,088.94
New Engine House.....	74,391.48
New Machine Shop	19,934.32
	<hr/>
	\$436,991.69

COST OF THE WORKS, APRIL 1st, 1868.

Cost of the Water Works, including all expenditures on works in progress, March 31st, 1868,	\$2,810,911.49
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HOW PAID FOR.

Water Loan Bonds, 6 per cent., \$1,030,000, deduct- ing for discount, \$46,637.46.....	\$983,362.54
Water Loan Bonds, 7 per cent.....	1,515,000.00
Amount used from water rents	312,548.95
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Total	\$2,810,911.49

SEWERAGE WORKS.

A greater length of sewers was laid than in any previous year. The totals of all sizes are stated below.

In the South Division, 23,044 feet, costing.....	\$92,760.75
“ West “ 48,592 “ “	239,964.30
“ North “ 18,045 “ “	84,005.46
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Total.....	89,681 feet, costing \$416,730.51
Total length of Sewers laid in the city, $101\frac{1170}{5280}$ miles.	

SEWER CLEANING.

There was expended in cleaning the Sewers and Catch Basins during the year..... \$26,540.81

SEWER REPAIRS.

The repairs of Sewers and Catch Basins, and the renewal and repairs of Manhole Covers during the year, cost \$9,596.42

PRIVATE DRAINS.

Permits for connecting buildings by drains with the sewers were issued as follows, viz:

In the South Division.....	1419
“ West “	1250
“ North “	1034
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Total	3703

EXPENSES, REPAIRS, AND INTEREST.

Interest on Sewerage Loan Bonds and temporary loans	\$107,954.91
Sinking Fund, amount set aside, tax of 1866	23,301.90
Salaries, office rent, and office and miscellaneous expenses	17,039.89
Repairs and cleaning of sewers as above	36,137.23
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Total cost for the year	\$184,433.93

SEWERAGE LOAN BONDS.

Six per cent. Bonds outstanding March 31st, 1868....	\$ 87,000
Seven " " " " "	1,612,000
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Total Sewerage Bonds outstanding March 31, 1868..	\$1,699,000

SEWERAGE SINKING FUND.

The amount belonging to the fund was, at the close of the year, as follows, viz.:

Balance in hands of City Treasurer, March 31, 1868, \$	4,114.65
Due from the sewerage tax of 1867	28,878.82
Mortgage due and unpaid	5,867.10

Total not yet applied to canceling of Sewerage Bonds, \$38,860.57

Sewerage Bonds to the amount of \$21,000 were purchased and canceled during the year, making the total amount purchased and canceled at the close of the year \$160,000.

DEEPENING OF THE ILLINOIS AND MICHIGAN CANAL.

May 1st, 1867, the Board received proposals anew for the entire work of deepening the Illinois and Michigan Canal. These proposals were for much higher prices than under the first contracts, and made the estimated cost of the work such that it was not deemed proper to accept them, except under authority from your honorable body. Reports informing the Council of the proposals received, and recommending that only a portion of the work be contracted for under certain of the bids rendered which seemed reasonable, were made by the Board at the time. Subsequently a part of the canal was again advertised, and contracts finally made for the work, excepting the summit sections Nos. 17 to 44 inclusive, as follows, viz.:

Sections 1-13, inclusive.....	Messrs. Fox, Howard & Walker.
“ 14-16, “	“ Hosch & Harroun.
“ 45, 46, 47 and E. $\frac{1}{2}$ 48..	Mr. Charles E. Boyer.
“ W. $\frac{1}{2}$ 48 and all of 49..	Messrs. C. B. Kimbell & Co.
“ 51 and 52.....	“ Hosch & Van Slyck.
“ 54 and 55.....	Mr. Samuel W. Norton.
“ 56, 57 and 59.....	Messrs. Lee & Graham.
“ 62 and 63.....	“ Jno. A. Henricks & Co.

As the contracts were let late in the season, the amount of dredging done was not large. It was, yet, quite as much as could be expected under the circumstances, and more than all that was done in other seasons preceding it.

Navigation was suspended on the canal from November 15th to April 1st. The progress made during the winter on the rock excavation was quite satisfactory. One third of the whole amount under contract was removed. The sections not under contract at

that time, and not embraced in those termed "rock sections," require, however, about 63,000 yards of rock excavation additional.

The work for the year was in amount as follows:

Earth excavation.....	247,460	cubic yards.
Rock "	87,146	"

For the cleansing of the river, the Pumping Works at Bridgeport were employed as heretofore, pumping the water of the river into the canal, but to a greater extent than in other years.

Pumping was commenced about the middle of June, and with occasional interruption was continued until September. For this pumping the sum of \$15,000 has been paid, leaving a balance to be settled hereafter.

During the winter, at the request of the Board, the Calumet feeder was discharged through the canal into the river. The turning of the waters of the feeder into the river, it was believed, would be beneficial in adding so much pure water to the volume of the river, and by creating more or less of an outward current, would prevent the accumulation of filth which ordinarily occurs. The result was that the river was kept in good condition through the winter, and was left comparatively clean in the spring.

CHICAGO HARBOR.

The City has expended nothing at the entrance to the harbor. It is hoped that the works there in progress under the United States Government, and the Chicago Dock and Canal Company, will be found adequate to the protection and preservation of the channel.

The dredging on the North Branch of a channel extending from Indiana Street to near Waubansia Avenue, commenced in the previous season, was finished during the year now reported on. With this exception no large amount of work was done during the year.

The survey of the river and branches for the establishment of the dock lines from the mouth of the harbor to the limits of the city, as ordered by the Council, was finished during the year.

An important harbor regulation was brought into operation this year—the Common Council ordinance providing for the closing of the bridges for vehicles and pedestrians for ten minutes after they shall have been kept open, at any time, so long as ten minutes for the passage of vessels.

The ordinance was put in force June 10th, 1867, and has operated, it is believed, without injury to the interests of navigation,[†] and very much to the accommodation of the general public.

WASHINGTON STREET TUNNEL.

At the opening of the year the contract with the original contractors, Messrs. Stewart, Ludlam & Co., was in force. But little progress was being made by them, and May 31st, 1867, the Board declared that by a failure to prosecute the work they had forfeited their contract, and ordered that proposals be again invited by public advertisement for the doing of the work by other contractors. Of the numerous proposals received, the bid of Messrs. J. K. Lake & Co. was accepted, and a contract executed with them July 20th, 1867, for the doing of the work for the sum of \$328,500, and certain specified prices for any work not included in the specifications.

With the exception of the suspension of the masonry during the winter months, the construction of the tunnel progressed vigorously from the time that Messrs. Lake & Co. commenced work.

STREET WORK.

In April, 1867, a writ of injunction was served on the city by the United States District Court, at the instance of parties representing Samuel Nicolson, and restraining the city from laying a species of wooden block pavement termed the Nicolson patent. Previous to this a small amount of pavement, somewhat different from that termed the Nicolson patent, had been laid. This pavement omitted the particular features on which it was understood that the patent was claimed as an original invention, that is, the insertion of a strip or picket between the rows of blocks and the tarring of the floor boards on which the pavement rests. The favorable experience had with it, and a careful comparison of its merits with the so-called Nicolson patent, led to its adoption by the Board. Its principal difference consists in this: The Nicolson pavement half occupies the space between the rows of blocks with a three inch strip or picket, on top of which is filled three inches of composition of gravel and tar. The pavement in use by the Board has the whole of this space packed with a composition of gravel and tar. It is found that in much of the pavement heretofore laid the picket works up to the surface, forcing out the gravel, and leaving the blocks without support, and loose. So far as the experience of the Board goes, nothing of the kind occurs with the composition filling rammed in between the blocks, and they are found as firmly set now as when first laid. The new pavement is apparently a firmer and more lasting one than that termed the Nicolson.

In this year the experiment was first made of sweeping and cleaning the paved streets of the city by contract. September 23d, 1867, the work was awarded to Messrs. McDonald & Hamlen for the period ending March 31st, 1868.

The contractors have performed the work satisfactorily. The cleaning of the improved streets can doubtless be done more economically by contract than by day labor.

The statements given hereafter exhibit the large number of the street and alley improvements ordered by the Council, and the progress made in carrying out these orders.

STREET WORK.

Statement showing the Street Work done and ordered done from April 1,
1867, to April 1, 1868.

The following streets have been ordered curbed, filled, graded and paved :

SOUTH DIVISION.

STREET.	FROM	TO	REMARKS.
Indiana av.	16th st.	22d st.	Completed.
Clark st.	Polk st.	12th st.	Completed.
Wells st.	Lake st.	Randolph st.	Completed.
La Salle st.	Madison st.	Jackson st.	Completed.
Wabash av.	S. Water st.	Randolph st.	Completed.
Calhoun place.	Clark st.	Dearborn st.	
Indiana av.	22d st.	29th st.	
Michigan av.	Lake st.	S. Water st.	Completed.
Haddock place.	Block 16.		
Haddock place.	Block 19.		
Haddock place.	Block 18.		

The following streets and alleys have been ordered filled, graded and planked :

STREET.	FROM	TO	REMARKS.
Couch place.	W. 161 feet	Block 34 O. T.	Completed.
Alley.	14th to 16th st.	Bet. State st. and Wabash av.	Completed.
Alley.	Block 4	Frac. Sec. 15.	

The following streets have been ordered graded and Macadamized :

STREET.	FROM	TO	REMARKS.
S. Market st.	Madison st.	Van Buren st.	Completed.
Halsted st.	Archer road	31st st.	Completed.
Halsted st.	31st st.	Egan av.	Completed.

The following streets have been ordered filled and graveled :

STREETS.	FROM	TO	REMARKS.
Michigan av.	12th st.	22d st.	Completed.
Michigan av.	22d st.	29th st.	

The following street has been ordered filled, curbed and graded :

STREET.	FROM	TO	REMARKS.
Adams st.	Market st.	Michigan av.	

WEST DIVISION.

The following streets have been ordered curbed, filled, graded and paved with wooden block pavement :

STREETS.	FROM	TO	REMARKS.
Clinton st.	Madison st.	Lake st.	Completed.
Milwaukee av.	Desplaines st.	Elston road.	Completed.
S. Halsted st.	Harrison st.	Crossing C.B.Q.RR.	Partly complet'd
Halsted st.	Lake st.	Harrison st.	
Blue Island av.	Harrison st.	Twelfth st.	Partly complet'd
N. Jefferson st.	Randolph st.	Fulton st.	
W. Van Buren st.	Canal st.	Halsted st.	Completed.
Canal st.	W. Lake st.	W. Madison st.	

The following streets and alleys have been ordered filled, graded and planked :

STREETS.	FROM	TO	REMARKS.
Fisk st.	22d st.	Lumber st.	Completed.
Alley, block 1.	Canal Trus. Sub'n.	S. E. $\frac{1}{4}$ Sec. 17.	Completed.
W. 22d st.	Centre av.	Reuben st.	Completed.
W. 22d st.	Center av.	Morgan st.	Completed.

The following streets have been ordered graded and Macadamized :

STREETS.	FROM	TO	REMARKS.
Blue Island av.	12th st.	22d st.	Completed.
N. Jefferson st.	Fulton st.	Alley, Block 10 O.T.	

The following streets have been ordered filled and graded :

STREET.	FROM	TO	REMARKS.
W. Washington st. Hoyne st. W. Twelfth st. W. Adams st.	Canal st. W. Lake st. Throop st. Halsted st.	Green st. Kinzie st. Loomis st. Canal st.	Completed.

The following streets have been ordered cindered :

STREET.	FROM	TO	REMARKS.
Noble st. North avenue Elston road	Milwaukee av. Noble st. North av.	North av. Elston road Clybourne place	Completed. Completed. Completed.

NORTH DIVISION.

The following streets have been ordered curbed, filled, graded, and paved with wooden block pavement :

STREET.	FROM	TO	REMARKS.
N. State st. Kinzie st	Michigan st. N. Clark st.	Chicago av. Kinzie st. bridge	Completed.
Michigan st. N. Clark st. N. Clark st. N. Dearborn st. N. Dearborn st. N. Clark st.	N. Clark st. Chicago river Chicago av. Michigan st. Michigan st. Division st.	Kingsbury st. Chicago av. Division st. North av. N. Water st. North av.	Completed.

The following alleys have been ordered filled, graded, and planked :

STREET.	FROM	TO	REMARKS.
Alley	Block 6	Wolcott's addition	Completed
Alley	Block 15	Johnston, Roberts, & Storrs.	Completed
Alley	Block 10	Wolcott's addition	Completed

The following street has been ordered curbed, graded, and Macadamized :

STREET.	FROM	TO.	REMARKS.
Chicago av.	N. Clark st.	Chicago river	Partly complet'd

The following streets have been ordered filled :

STREET.	FROM	TO	REMARKS.
N. Market st. Bremer st. Division st. Townsend st.	Erie st. Chicago av. Clybourne av. Chicago av.	Division st. Division st. Larrabee st. White st.	Completed.

The following streets have been ordered graveled :

STREET.	FROM	TO	REMARKS.
N. Water st. Rush st.	Rush st. Kinzie st.	St. Clair st. Chicago av.	Completed.

LAMP POSTS.

ORDERED BY COMMON COUNCIL DURING YEAR FROM APRIL 1st,
1867, TO APRIL 1st, 1868.

The following list shows the orders given by the Common Council during the past year, for the erection of lamp posts in the different divisions of the city, and also the progress that has been made in carrying out these orders:

SOUTH DIVISION.

WHERE ERECTED.	No. Posts.	REMARKS.
Cottage Grove av. bet. 26th st. and S. line University place.	45	Posts erected.
Wabash av., one at its intersection with 13th st. and one at intersection of 20th st., and 2 old posts removed to street corners.	2	Posts erected.
Hubbard Court bet. Wabash and Michigan avs.	2	
Sherman st. between Van Buren and Harrison sts.	6	Posts erected.
Griswold st. bet. Van Buren and Polk sts., and the post cor. Van Buren and Griswold sts. removed 35 feet W.	14	Posts erected.
Taylor st. intersection with Wells st.	2	Posts erected.
So. Water st., alley next E. Wabash av. and S. E. cor. Blk. 5, Fort Dearborn addition.	4	
Prairie av. bet. 22d and 23d sts.	3	Posts erected.
26th st. bet. Indiana and Calumet avs., and the post S. side 26th st., bet. Prairie and Calumet avs., removed to opposite side of street.	4	Posts erected.
31st st. bet. Wabash and Indiana avs.	8	Posts erected.
29th st. bet. Indiana and Calumet avs.	8	Posts erected.
State st. bet. 22d and 23d sts., and 1 post on 23d st 120 feet E. of State street.	6	
Wells st. bt. Taylor and Polk sts.	4	Posts erected
Wabash av. bet. 25th and 31st sts.	27	Posts erected.
Indiana av. bet. 29th and 31st sts.	11	Posts erected.
21st st. bet. State st. and Michigan av.	4	Posts erected.
Michigan av. bet. 29th and 31st sts.	9	Posts erected.
Indiana av. from 31st st. to a point about 900 ft. S. Alley, block 118, school section addition.	8	Posts erected.
Kankakee av. bet. Cottage Grove av. and 29th st.	2	Posts erected.
Calumet av. from 22d st. to 24th st.	10	
Madison st. bt. La Salle st. and Clark st.	11	
Madison st. 100 feet E. of State st.	2	Posts erected.
Calumet av. bet. 26th and 25th sts.	1	Post erected.
	6	

SOUTH DIVISION.---Continued.

WHERE ERECTED.	No. Posts.	REMARKS.
Douglas Place from Cottage Grove av. to a point 650 feet west }	6	Posts erected.
Cottage Grove av., University Place to Douglas Place.	3	Posts erected.
Market st. bet. Quincy st. and Van Buren st.	5	
25th st. from Wabash av. to State st.	2	
Clark st. bt. 12th and 14th sts.	9	
28th st. from Michigan av. 125 feet west.	1	
La Salle st. bt. Van Buren and Madison sts.	11	

WEST DIVISION.

Jefferson st. bet. Lake st and Kinzie st.	9	Posts erected.
Hubbard st. bet. Sangamon st. and Milwaukee av.	9	Posts erected.
Desplaines st. bet. Lake st. and Kinzie st.	9	
W. Van Buren st. bet. Jefferson st. and Desplaines st.	2	Posts erected.
W. Washington st. bt. Lincoln st. and W. line Robey st. }	6	Posts erected.
Union st. bt. 12th st. and Dussold st., and one on Dussold st. 120 feet west of Union st. }	3	Posts erected.
Monroe and Peoria sts., intersection of, one on N. E. cor. and one on S. W. corner. }	2	Posts erected.
Halsted st. bet. Harrison st. and 12th st	24	Posts erected.
N. Clinton st. bet. Fulton st. and Kinzie st.	6	
W. Washington st. bet. Leavitt st. and Robey st.	9	Posts erected.
Peoria st. bet. Van Buren st. and W. Jackson st.	3	Posts erected.
Warren st. bet. Leavitt st. and Hoyne st.	5	Posts erected.
Sangamon st. bet. W. Washington and Fulton sts.	1	Post erected.
W. Monroe st. bet. Lafflin st. and Throop st.	6	Posts erected.
W. Adams st. bet. Peoria st. and Sangamon st.	1	Post erected.
W. Adams st. bet. Halsted st. and Green st.	1	
Park av. bet. Leavitt st. and Robey st.	7	Posts erected.
Fulton st. bet. N. Halsted st. and N. Union st.	4	Posts erected.
Sheldon st. bet. Fulton st. and Carroll st.	3	Posts erected.
Loomis st. bet. W. Tyler st. and W. Van Buren st	2	Posts erected.
N. Jefferson st. bet W. Kinzie st. and Hubbard st.	2	Posts erected.
Throop st. bet. W. Van Buren st. and W. Tyler sts.	4	Posts erected.
W. Van Buren st. bet. Canal st. and Jefferson st.	7	
Ada st. bet. W. Washington and W. Madison sts.	2	Posts erected.
Van Buren st. bet. Loomis and Throop sts.	4	Posts erected.
W. Twelfth st. bet. Jefferson and Halsted sts.	11	Posts erected:
Reuben st. bet. W. Madison and W. Adams sts.	10	Posts erected.
Clinton st. bet. W. Van Buren and W. Harrison sts.	8	Posts erected.
May st. bet. W. Randolph and W. Washington sts.	1	Post erected.
Desplaines st. bet. W. Madison & W. Washington sts.	2	Posts erected.
Curtis st. bet. W. Lake and W. Washington sts.	4	
Park av. bet. Leavitt and Oakley sts.	7	
N. Ada st. bet. W. Lake and Carroll sts.	7	Posts erected.
Walnut st. bet. N. Lincoln and N. Robey sts.	6	Posts erected.
N. Robey st. bet. Fulton and Walnut sts.	3	Posts erected.
W. Van Buren st. bet. Morgan and Aberdeen sts.	3	Posts erected.
Morgan st. bet. W. Jackson and W. Adams sts.	3	Posts erected.
Fulton st. bet. N. Morgan and a point 125 feet west.	2	
Aberdeen st. bet. W. Harrison and William sts.	8	

WEST DIVISION.---Continued.

WHERE ERECTED.	No. Posts.	REMARKS.
Fulton st. between N. Robey and N. Lincoln sts.	6	Posts erected.
Clinton st. next N. of Madison st.	1	
W. Harrison st. bet. Centre av. and Aberdeen st.	5	Posts erected.
Halsted st. bet. W. Harrison and W. 12th sts.	24	Posts erected.
W. Monroe st. bet. Lafflin and Throop sts.	6	Posts erected.
W. Lake st. bet. Leavitt and Robey sts.	2	Posts erected.
Clinton and Washington sts., S. E. corner.	1	Post erected.
Warren st. bet. Hoyne and Leavitt sts.	5	Posts erected.
Leavitt st. bet. Warren st. and Park av.	3	
W. Monroe st. 50 feet E. of Aberdeen st.	1	Post erected.
Chicago av. about 100 feet E. of N. Halsted st.	1	Post erected.
Clinton st. bet. W. Lake and W. Randolph sts.	2	Posts erected.
S. Jefferson st. between Mitchell and Meagher sts.	12	Posts erected.
Chicago av. bet. Rucker st. and Milwaukee av.	7	Posts erected.
Sheldon st. bet. W. Lake and W. Randolph sts.	2	
Halsted st. bet. W. Lake and W. Harrison sts.	20	Posts erected.
Milwaukee av. bet. Desplaines and Rucker sts.	9	Posts erected.
Clinton st. bet. W. Lake and W. Randolph sts.	2	Posts erected.
W. Monroe st. bet. Reuben and Lafflin sts.	7	
W. Monroe st. and Morgan st. at intersection.	2	Posts erected.
Chicago av. bet. Rucker and Noble sts.	17	Posts erected.
Robey st. bet. W. Monroe and W. Madison sts.	3	
W. Monroe st., Reuben st. and Lafflin st.	3	
Reuben st. bet. W. Adams and W. Jackson sts.	3	
Tyler st. bet. Centre av. and Aberdeen st.	2	

NORTH DIVISION.

Division st. bet. Townsend and Sedgwick sts.	3	Posts erected.
Oakwood st. alley next E. of Robey-st. to a point) 300 feet E. of said alley. }	3	
N. Franklin st. bet. Kinzie and Illinois sts.	6	Posts erected.
North av. E. line N. La Salle to W. line Dayton st.	42	Posts erected.
Maple st. E. of N. Dearborn st.	1	Post erected.
N. Franklin st. bet. Schiller st. and North av.	10	Posts erected.
N. Dearborn st. bet. Elm and Schiller sts.	15	Posts erected
Schiller st. bet. N. Dearborn and N. State sts.	3	
Erie st. bet. N. Market and N. Wells sts.	6	
N. La Salle st. bet. North av. and Schiller st.	9	Posts erected.
N. Dearborn st. bet. Oak st. and Washington Place.	7	Posts erected.
Sedgwick st. bet. North av. and Division st.	18	Posts erected
Chicago av. bet. N. Clark and N. Dearborn sts.	3	
Indiana st. bet. N. Wells st. and Indiana st. bridge.	16	
Washington Place bet. N. Clark & N. Dearborn sts.	2	
Wendell st. E. of N. Wells st.	2	
Division st. bet. N. Clark and N. Dearborn sts.	3	
Larrabee st. from Clybourne av. 400 ft. N. of North av.	16	Posts erected.
Sedgwick st. from Division st. 400 ft. south.	4	Posts erected.
Clybourne av. bet. Division and Larrabee sts.	11	Posts erected.
Bremer st. from Chicago av. to a point 800 ft. north.	8	
N. Dearborn st. bet. Schiller st. and North av.	11	

WHERE ERECTED.	No. Posts.	REMARKS.
Ohio st. bet. N. Clark and N. La Salle sts.	2	
Townsend st. from Chicago av. a point 800 ft. N.	7	
N. Clark st. bet. N. Water st. and the Chicago river.	2	
Indiana st. from Rush st. to 120 ft east.	1	
N. State st. bet. Huron and Michigan sts.	6	

SIDEWALKS.

A. W. TINKHAM, Esq.,

Secretary of Board of Public Works.

SIR: The undersigned respectfully presents his report relating to the construction and re-construction of sidewalks, from April 1, 1867, to March 31, 1868, under the following ordinances:

WEST DIVISION.

FIRST DISTRICT.

Side of Street.	LOCATION OF SIDEWALK.			Frontage in feet.	All built except.
	STREET OR AVE.	FROM	TO		
B. S.	Halsted st.	Chicago av.	North Branch.	828	"
B. S.	Trustees st.	Kinzie st.	Northern Term	500	"
N. S.	Front st.	Halsted st.	Carpenter st.	1,397	"
W. S.	Noble st.	Kinzie st.	Hubbard st.	358	"
S. S.	George st.	Carpenter st.	Grover st.	400	"
W. S.	Wood st.	Indiana st.	Ashley st.	218	"
S. S.	Fourth st.	Lincoln st.	Paulina st.	1,185	"
W. S.	May st.	Hubbard st.	Second st.	1,386	"
N. S.	Cornelia st.	Reuben st.	Rumsey st.	274	"
S. S.	Chicago av.	Milwaukee av.	Carpenter st.	380	"
S. S.	Indiana st.	Oakley st.	Western av.	525	"
N. S.	Augusta st.	Holt st.	Wood st.	1,782	"
E. S.	Currier st.	Wade st.	Augusta st.	250	"
W. S.	Bickerdike st.	Second st.	Chicago av.	551	"
S. S.	Second st.	Noble st.	Reuben st.	1,215	"
W. S.	Green st.	Philips st.	Chicago av.	788	"
E. S.	Union st.	Fourth st.	W. Erie st.	352	"
S. S.	Wade st.	Elston road	Currier st.	787	"
N. S.	Fourth st.	Curtis st.	Rucker st.	642	ex. 40 ft.
E. S.	Curtis st.	Fourth st.	Second st.	701	"
E. S.	May st.	Chicago av.	Second st.	584	"
W. S.	N. Robey st.	North av.	Wabansia av.	561	ex. 120 ft.
E. S.	Holt st.	Bradley st.	Division st.	590	ex. 25 ft.
E. S.	Morgan st.	Indiana st.	W. Erie st.	699	"
E. S.	Sangamon st.	Indiana st.	W. Erie st.	681	"
S. S.	Augusta st.	Elston road	Reuben st.	2,626	ex. 100 ft.
B. S.	Fourth st.	Reuben st.	Paulina st.	1,227	"
E. S.	Lincoln st.	W. Indiana st.	Fourth st.	428	"
E. S.	Sangamon st.	Milwaukee av.	Pratt st.	470	ex. 25 ft.
E. S.	Paulina st.	Chicago av.	Clarinda st.	400	ex. 50 ft.
N. S.	Cornell st.	Noble st.	Reuben st.	1,000	ex. 25 ft.
S. S.	Pratt st.	Halsted st.	Sangamon st.	625	"
N. S.	Wabansia av.	Elston road	Milwaukee av.	667	ex. 150 ft.
E. S.	Ridgeville road	Elk st.	Black Hawk st.	450	"

FIRST DISTRICT.—CONTINUED.

N. S.	North av.	Elston road.	Milwaukee av.	773	All built	
S. S.	W. Indiana st.	Reuben st.	Paulina st.	560	"	
N. S.	W. Indiana st.	Elizabeth st.	Reuben st.	1,868	"	ex. 24 ft.
S. S.	Hubbard st.	Elizabeth st.	Western av.	693	"	ex. 90 ft.
B. S.	Fay st.	W. Erie st.	Pratt st.	1,112	"	
N. S.	Black Hawk st.	Holt st.	Noble st.	556	"	ex. 24 ft.
W. S.	Leavitt st.	Hubbard st.	Indiana st.	329	"	
W. S.	Elston road	Division st.	North av.	3,646	"	ex. 200 ft.
B. S.	Smart st.	Kinzie st.	Hubbard st.	602	"	
B. S.	Dickson st.	Division st.	Northern Term	1,734	"	
E. S.	Reuben st.	Milwaukee av.	Black Hawk st.	1,100	"	ex. 100 ft.
Total				38,490		

SECOND DISTRICT.

B. S.	Carroll st.	Robey st.	Leavitt st.	2,504	All built	ex. 600 ft.
N. S.	Fulton st.	Robey st.	Leavitt st.	1,253	"	
B. S.	Walnut st.	146 ft. west of	Reuben st.	320	"	
B. S.	Monroe st.	Throop st.	Loomis st.	1,224	"	
E. S.	Lafin st.	Madison st.	Adams st.	724	"	
S. S.	Park av.	Hoyne st.	Leavitt st.	614	"	
B. S.	Hoyne st.	Lake st.	Kinzie st.	2,216	"	ex. 325 ft.
E. S.	Honore st.	Adams st.	Jackson st.	403	"	
N. S.	Warren st.	Oakley st.	Western av.	614	"	
N. S.	Van Buren st.	Aberdeen st.	Center av.	614	"	
E. S.	Center av.	Jackson st.	Van Buren st.	410	"	
W. S.	Loomis st.	Jackson st.	Van Buren st.	362	"	
E. S.	Western av.	Madison st.	Lake st.	1,110	"	
W. S.	Hermitage av.	Jackson st.	Van Buren st.	403	"	
W. S.	Wood st.	Madison st.	Jackson st.	1,274	"	
E. S.	Ann st.	Fulton st.	Carroll st.	317	"	ex. 50 ft.
S. S.	Park av.	Oakley st.	Western av.	629	"	
N. S.	Jackson st.	Seeley av.	Robey st.	288	"	
E. S.	Hoyne st.	Madison st.	S.W. cor. L. 4B.5	610	"	
S. S.	Randolph st.	Elizabeth st.	Sheldon st.	428	"	
E. S.	Ada st.	Madison st.	Randolph st.	854	"	
W. S.	Elizabeth st.	Madison st.	Randolph st.	450	"	
W. S.	Ada st.	Washington st.	Randolph st.	346	"	
S. S.	Randolph st.	Sheldon st.	Western av.	239	"	
N. S.	Park av.	Oakley st.	Western av.	628	"	
N. S.	Walnut st.	Leavitt st.	Western av.	1,256	"	
N. S.	Van Buren st.	Throop st.	Loomis st.	200	"	
N. S.	Smith st.	Reuben st.	Paulina st.	110	"	
E. S.	Throop st.	Jackson st.	Van Buren st.	192	"	
S. S.	Carroll st.	Lincoln st.	Robey st.	628	"	
N. S.	Walnut st.	Reuben st.	Oakley st.	1,399	"	
W. S.	Seeley av.	Adams st.	Madison st.	863	"	
W. S.	Paulina st.	Fulton st.	Walnut st.	267	"	
S. S.	Fulton st.	Lincoln st.	Paulina st.	1,254	"	
S. S.	Warren av.	Leavitt st.	Oakley st.	624	"	ex. 48 ft.
E. S.	N. Lincoln st.	Kinzie st.	Carroll st.	277	"	ex. 277 ft.
E. S.	Leavitt st.	Madison st.	Jackson st.	1,320	"	
N. S.	Warren av.	Leavitt st.	Western av.	1,263	"	
S. S.	W Kinzie st.	Wood st.	Lincoln st.	628	"	
S. S.	Adams st.	Loomis st.	Reuben st.	1,252	"	ex. 1,252 ft.
W. S.	Carpenter st.	Fulton st.	Kinzie st.	684	"	ex. 684 ft.
W. S.	Loomis st.	Adams st.	Jackson st.	361	"	
E. S.	Oakley st.	Madison st.	Kinzie st.	2,067	"	ex. 150 ft.
S. S.	Monroe st.	Loomis st.	Reuben st.	800	"	
Total				34,897		

THIRD DISTRICT.

S. S.	Sampson st.	Blue Island av.	Center av.	392	All built.
S. S.	Liberty st.	Union st.	Halsted st.	446	"
B. S.	Gold st.	Harrison st.	Gurley st.	872	"
E. S.	Union st.	Twelfth st.	O'Brien st.	373	"
E. S.	May st.	Harrison st.	Gurley st.	416	"
E. S.	Nutt st.	Sixteenth st.	To Terminus.	641	"
N. S.	Twelfth st.	Lafin st.	Loomis st.	628	"
N. S.	Harrison st.	Halsted st.	Center av.	2,316	" ex. 200 ft.
W. S.	Sangamon st.	Van Buren st.	Harrison st.	746	"
W. S.	Lumber st.	Jefferson st.	Union st.	947	"
W. S.	Union st.	Sixteenth st.	Eighteenth st.	743	"
S. S.	Mitchell st.	Throop st.	Lafin st.	1,260	"
B. S.	Wright st.	Canal st.	Stewart av.	1,028	"
B. S.	Green st.	Taylor st.	Harrison st.	709	"
B. S.	Sebor st.	Canal st.	Elsworth st.	1,518	"
N. S.	Wright st.	Halsted st.	Morgan st.	941	"
N. S.	Luke st.	Halsted st.	Center av.	2,333	" ex. 320 ft.
S. S.	Mitchell st.	Blue Island av.	Waller st.	1,173	"
S. S.	Maxwell st.	Blue Island av.	Johnson st.	1,572	"
E. S.	Newberry st.	Blue Island av.	Wright st.	442	"
N. S.	Wright st.	Newberry st.	Halsted st.	221	"
S. S.	Depuyster st.	Halsted st.	Desplaines st.	823	"
S. S.	Taylor st.	Throop st.	Loomis st.	438	"
W. S.	Waller st.	Twelfth st.	Maxwell st.	650	"
S. S.	Nebraska st.	Throop st.	Loomis st.	625	"
N. S.	Lumber st.	Halsted st.	McCord's addn.	560	"
N. S.	Kansas st.	Throop st.	Loomis st.	590	"
W. S.	May st.	Evans st.	Twenty-second	1,725	"
W. S.	Nutt st.	Sixteenth st.	Terminus.	625	"
E. S.	Center av.	Blue Island av.	Sixteenth st.	560	" ex. 200 ft.
S. S.	Frank st.	Waller st.	Blue Island av.	960	"
W. S.	Throop st.	Van Buren st.	Tyler st.	450	"
N. S.	Henry st.	Blue Island av.	Lafin st.	1,719	"
Total				30,400	

SOUTH DIVISION.

FIRST AND SECOND DISTRICT.

(No ordinance passed this year.)

THIRD DISTRICT.

Side of Street	LOCATION OF SIDEWALK.			Whole frontage	All built except.
	STREET.	FROM	TO		
W. S.	Stewart av.	Archer av.	Twenty-fourth	533	All built.
S. S.	Twenty-fourth	Michigan av.	Wabash av.	432	"
W. S.	Hanover st.	Archer av.	Twenty-fifth st.	1,152	"
S. S.	Twenty-fifth st.	Wallace st.	Sanger st.	609	"
S. S.	Twenty-eighth	Michigan av.	State st.	840	" ex. 50 ft.
S. S.	Twentieth st.	State st.	Prairie av.	1,469	"
E. S.	Buddan st.	Archer av.	Twenty-sixth st.	2,262	"
N. S.	Egan av.	Lake av.	Vincennes av.	2,281	"
E. S.	Reuben st.	Archer av.	Muligan st.	760	"
E. S.	Laurel st.	Thirty-first st.	Douglas place	2,475	"

THIRD DISTRICT.—CONTINUED.

N. S.	Twenty-sixth st.	Halsted st.	Wentworth av.	3,630	All built.
S. S.	Twenty-fourth	State st.	Butler st.	3,263	"
W. S.	Kankakee av.	Twenty-second	Twenty-fifth st.	1,875	"
E. S.	Calumet av.	Twenty-ninth	Thirty-first st.	1,150	"
E. S.	State st.	Thirtieth st.	Thirty-first st.	415	" ex. 125 ft.
N. S.	Thirty-first st.	State st.	Wentworth av.	1,015	"
B. S.	Nineteenth st.	Arnold st.	Wentworth av.	344	" ex. 172 ft.
B. S.	Michigan av.	Thirty-first st.	Thirty-second	1,300	" ex. 100 ft.
E. S.	Prairie av.	Thirty-first st.	Thirty-third st.	1,260	"
W. S.	Church st.	Archer av.	Fuller st.	614	"
S. S.	Douglas place	Cottage Gr. av.	Kankakee av.	1,588	"
W. S.	Indiana av.	Twenty-fifth st.	Twenty-sixth st.	414	"
S. S.	Douglas place	Forest av.	Indiana av.	598	"
W. S.	Wentworth av.	Thirty-first st.	Thirty-third st.	1,285	"
B. S.	Michigan av.	Twenty-ninth	Twenty-first st.	1,670	"
S. S.	Twenty-third st.	Kankakee av.	Calumet av.	405	"
S. S.	Douglas place	Wentworth av.	Indiana av.	2,135	" ex. 2,135 ft.
B. S.	State st.	Twenty-eighth	Douglas place	8,323	" ex. 500 ft.
N. S.	Esplanade st.	Halsted st.	Wallace st.	1,102	"
N. S.	Twenty-ninth	State st.	Indiana av.	1,162	"
B. S.	Prairie av.	Twenty-second	Twenty-third st.	1,221	"
E. S.	Deering st.	Archer av.	Thirty-first st.	1,609	"
W. S.	Deering st.	Thirty-first st.	Lyman st.	798	"
B. S.	Wabash av.	Twenty-sixth st.	Thirty-first st.	5,082	"
N. S.	Twenty-ninth	State st.	Indiana av.	1,140	"
S. S.	Douglas place	Lake av.	Cottage Gr. av.	550	" ex. 192 ft.
E. S.	Ellis av.	Douglas place	Wahpanseh av.	943	" ex. 132 ft.
N. S.	Thirty-first st.	Halsted st.	Deering st.	1,802	"
S. S.	Twenty-sixth st.	State st.	Indiana av.	1,214	" ex. 180 ft.
W. S.	Broad st.	Archer av.	Thirty-first st.	680	"
W. S.	Butler st.	Twenty-sixth st.	McGregor st.	790	" ex. 375 ft.
E. S.	Wabash av.	Thirty-first st.	Thirty-second	635	"
N. S.	Twenty-first st.	Indiana av.	Prairie av.	333	"
W. S.	Michigan av.	Thirty-second	Douglas place	1,782	" ex. 1,150 ft.
E. S.	Kankakee av.	Twenty-ninth	Thirty-first st.	1,188	" ex. 208 ft.
W. S.	Quarles st.	Douglas place	Wahpanseh av.	1,254	"
W. S.	Calumet av.	Twenty-sixth st.	Thirty-first st.	2,465	"
W. S.	Indiana av.	Thirty-second	Egan av.	4,224	"
E. S.	Indiana av.	Thirty-first st.	Douglas place	2,574	"
E. S.	Prairie av.	Twentieth st.	Twenty-first st.	402	" ex. 50 ft.
W. S.	Ulman st.	Thirty-first st.	Douglas place	2,376	" ex. 660 ft.
N. S.	Thirty-first st.	State st.	Michigan av.	728	"
Total				80,501	

NORTH DIVISION.

Side of Street.	LOCATION OF SIDEWALKS.			Whole front.	All Built except.
	STREET.	FROM	TO		
S. S.	Superior st.	Market st.	W. Terminus.	1,310	"
B. S.	Townsend st.	Chicago av.	Erie st.	1,488	"
W. S.	Hull st.	Linden st.	Menominee st.	622	"
W. S.	Clybourn av.	Black Hawk st.	North av.	1,056	"
B. S.	Church st.	Menominee st.	Wisconsin st.	1,246	"
B. S.	Oak st.	Market st.	Larrabee st.	2,497	"
W. S.	Hurlbut st.	Lot 8.	North av.	1,450	"
S. S.	Huron st.	Rush st.	St. Clair st.	328	"
S. S.	Whitney st.	State st.	Pine st.	974	"
E. S.	Hurlbut st.	Center st.	Asylum place.	1,211	"
N. S.	Center st.	Franklin st.	Larrabee st.	1,738	"
N. S.	Sophia st.	Clark st.	Larrabee st.	1,554	"
S. S.	Eugenia st.	Wells st.	Sedgwick st.	992	"
N. S.	Franklin st.	Asylum place.	Clark st.	910	"
B. S.	Cedar st.	Rush st.	To the Lake.	1,652	"
B. S.	La Bar st.	Larrabee st.	Division st.	1,424	"
N. S.	Black Hawk st.	Hurlbut st.	Sedgwick st.	510	" ex. 48 ft.
W. S.	Church st.	Black Hawk st.	North av.	595	" ex. 24 ft.
S. S.	Hill st.	Franklin st.	N. Market st.	360	"
N. S.	Center st.	Franklin st.	Larrabee st.	1,580	"
E. S.	Hurlbut st.	Center st.	Asylum place.	1,093	"
W. S.	Block st.	North av.	Linden st.	520	" ex. 75 ft.
N. S.	Maple st.	Clark st.	To alley west.	166	"
Total, feet.....				25,826	

Total number of feet frontage.....210,014 feet.

Total number of Ordinances in the Third Division...198.

NUMBER OF LINEAL FEET OF SIDEWALK CONSTRUCTED DURING THE YEAR ENDING MARCH 31, 1868.

SOUTH DIVISION.

FIRST DISTRICT—FROM RIVER TO HARRISON STREET.

11,911	feet plank walk 16 feet wide, new.
1,265	" stone " " " " "
159	" " " 14 " " "
100	" " " 12 " " "
5,690	" plank " 16 " " relaid new.
1,749	" " " 14 " " new.
1,493	" " " 14 " " relaid.
280	" " " 12 " " new.
335	" " " 12 " " relaid.
397	" " " 8 " " new.
509	" " " 8 " " relaid.
588	" " " 6 " " new.

24,476 total feet, $4\frac{6}{10}$ miles.

SECOND DISTRICT—FROM HARRISON STREET TO 18TH STREET.

7,897	feet plank walk	6 feet wide,	new.
6,580	" " "	6 " "	relaid.
4,135	" " "	8 " "	new.
1,475	" " "	8 " "	relaid.
545	" " "	10 " "	new.
400	" " "	10 " "	relaid.
4,017	" " "	14 " "	new.
3,060	" " "	14 " "	relaid.
5,800	" " "	16 " "	new.
2,220	" " "	16 " "	relaid.
1,690	" " "	8 " "	new.

37,819 total feet, $7\frac{2}{10}$ miles.

THIRD DISTRICT—FROM 18TH STREET TO EGAN AVENUE.

76,386	feet plank walk	6 feet wide,	new.
6,519	" " "	6 " "	relaid new.
935	" " "	8 " "	new.
150	" " "	8 " "	relaid new.
83	" " "	12 " "	new.
1,279	" " "	16 " "	new.

85,352 total feet, $16\frac{2}{10}$ miles.

WEST DIVISION.

FIRST DISTRICT—FROM NORTH CITY LIMITS TO KINZIE STREET.

80	feet plank walk	16 feet wide,	new.
125	" " "	16 " "	relaid.
7,800	" " "	14 " "	new.
200	" " "	14 " "	relaid.
200	" " "	12 " "	new.
980	" " "	12 " "	relaid.
58,180	" " "	6 " "	new.
23,323	" " "	6 " "	relaid.

90,888 total feet, $17\frac{2}{10}$ miles.

SECOND DISTRICT—FROM KINZIE STREET TO VAN BUREN.

31,486	feet	plank	walk	6	feet	wide,	new.
40,951	"	"	"	6	"	"	relaid new.
399	"	"	"	8	"	"	" "
5,365	"	"	"	14	"	"	" "
6,079	"	"	"	16	"	"	" "

84,280 total feet, 16 miles.

THIRD DISTRICT—FROM VAN BUREN STREET TO SOUTH BRANCH.

19,353	feet	plank	walk	6	feet	wide,	new.
30,084	"	"	"	6	"	"	relaid new.
500	"	"	"	12	"	"	new.
805	"	"	"	16	"	"	relaid new.

50,742 total feet, $9\frac{6}{10}$ miles.

NORTH DIVISION.

FIRST DISTRICT—FROM RIVER TO DIVISION STREET.

7,000	feet	plank	walk	25	feet	wide,	new.
64	"	stone	"	25	"	"	new.
12,998	"	plank	"	16	"	"	relaid.
1,000	"	"	"	14	"	"	new.
3,000	"	"	"	8	"	"	new.
1,200	"	"	"	12	"	"	relaid new.
22,096	"	"	"	6	"	"	new.
22,149	"	"	"	6	"	"	relaid new.

69,507 total feet, $13\frac{2}{10}$ miles.

SECOND DISTRICT—FROM DIVISION STREET TO NORTH LIMITS.

13,301	feet	plank	walk	6	feet	wide,	new.
26,535	"	"	"	6	"	"	relaid new.

39,836 total feet, $7\frac{1}{12}$ miles.

AGGREGATE AMOUNT.

First District, South Division.....	$4\frac{6}{10}$	miles.
Second " " " "	$7\frac{2}{10}$	"
Third " " " "	$16\frac{2}{10}$	"
First " West " "	$17\frac{2}{10}$	"
Second " " " "	16	"
Third " " " "	$9\frac{6}{10}$	"
First " North " "	$13\frac{2}{10}$	"
Second " " " "	$7\frac{5}{10}$	"
<hr/>		
Total.....	91 $\frac{1}{2}$	miles.

The total number of miles of sidewalks reported now laid in the city, is as follows:

North Division.....	91	miles.
South " "	122	"
West " "	220	"
<hr/>		
Total	433	miles.

The number of feet of sidewalks constructed by city contractor, payable from appropriation and assessment, amounts to 12,188 feet, as follows:

4,960	feet in the West Division.
6,926	" " South "
302	" " North "

J. L. HANCHETTE.

Supt. of Sidewalks.

BRIDGES.

New bridges were constructed during the year at Lake street, Van Buren street, Eighteenth street and Chicago avenue. These are all pivot bridges, and constructed at high grade, so as to permit the passage of tugs, canal boats, etc., beneath, without opening. They were all designed by Superintendent Thompson and built under his supervision, and are nearly similar to Clark street bridge, having wrought iron chords and wooden braces, which can readily be replaced when found decayed or defective.

The Chicago pivot bridges, in convenience, and the facility with which they are handled, are believed to be equal to any in our country. In no place are they so severely tested.

PUBLIC BUILDINGS.

Expenditures of considerable amount were made on the Court House, Armory, City Bridewell and North Market, for their preservation and repair.

Several new buildings were erected during the year for the use of other departments of the city government.

For the Board of Education—the Carpenter school, corner of Centre avenue and Second street, the Holden school, corner of Deering and Thirty-first street, and the Hayes school on Leavitt street, between Walnut and Fulton streets—all four-story brick buildings; and the two-story wooden buildings termed the Elm street Primary School, situated at the corner of Elm and Rush streets, and the Wentworth avenue Primary School, situated at the corner of Wentworth avenue and Twentieth street.

For the Board of Police—the brick engine house and police station on Chicago avenue near Milwaukee avenue.

These buildings have already been described in the respective reports of the Boards of Education and Police.

PUBLIC PARKS. *

At Lincoln Park, the artificial lakes were finished during the year, many of the artificial elevations, and the more important of the drives and walks. Eight temporary bridges were constructed at various places, a considerable number of trees planted, and much work done generally in grading, trenching and raising the ground, clearing away the low brush, etc. The carrying out of the original plan of improvement had so far progressed that by the close of the year the park had become attractive in appearance and a place of public resort.

At Union Park, the preparatory work for the formation of the park was in active progress during the year. The grounds were spaded and leveled preparatory to seeding; 2,300 feet of sewers constructed through the park, about 2,800 feet of the main drive macadamized and much work done in the formation of the walks. Fifteen hundred trees were planted. The artificial lakes and mounds were being made when the year closed.

At Lake Park the work was confined to filling in the basin between the railroad and the shore, ground of considerable extent being there made at comparatively small cost.

But little work was done at the other small parks, or public squares of the city.

In conclusion, the Board respectfully refer you to the accompanying report of the City Engineer for a more complete representation of matters under his supervision, and particularly as to the water and sewerage works of the city; and to the appended financial statement, (of all funds excepting special assessment funds) and exhibiting their expenditures in detail.

Respectfully submitted.

A. H. BURLEY,	{	<i>Board of Public Works.</i>
J. McARTHUR,		
W. H. CARTER,		

REPORT OF THE CITY ENGINEER.

CHICAGO, October 1st, 1868.

To the Board of Public Works :

GENTLEMEN: Your engineer herewith respectfully presents his Seventh Annual Report, being for the year ending March 31, 1868.

The first subject in order is the

REPORT OF THE ENGINEER OF THE PUMPING WORKS.

PUMPING DEPARTMENT WATER WORKS, }
CHICAGO, October 1, 1868. }

E. S. CHESBROUGH, Esq.,
City Engineer.

SIR: I submit herewith my Fourteenth Annual Report of the operations of this department, it being for the year ending March 31, 1868.

The total quantity of water pumped during the past year was 4,231,791,659 gallons, being an increase of nearly 1,063,000,000 gallons, or say 33 per cent. over that pumped the previous year.

The following record will exhibit the aggregate operations of the Works, each month during the past year :

OPERATIONS OF ENGINES AND BOILERS.

MONTHS.	No. of days run.	No. of hours and minutes run.	Average No. of hours run per day.	Av. gallons water pumped per day.	Total gallons water pumped per month.	Pounds of coal consumed for pumping.	Pounds of coal consumed while at rest.	Total coal used per month.	Total revolutions per month.
1867									
April.....	30	592 18	19 59	9,396,824	281,904,710	724,000	13,400	737,400	348,556
May.....	31	680 16	21 57	9,123,010	282,813,313	688,300	8,600	696,900	455,614
June.....	30	679 58	22 40	10,611,964	318,358,925	774,710	5,000	779,710	431,741
July.....	31	723 46	23 21	11,720,074	363,322,276	868,830	3,400	872,230	450,305
August.....	31	726 41	23 26	12,111,023	375,441,736	930,630	2,400	933,030	463,925
September.....	30	687 27	23 55	11,832,189	354,965,684	917,040	2,200	919,240	449,128
October.....	31	719 24	23 13	12,180,193	377,585,973	900,240	2,000	902,240	465,008
November.....	30	698 21	22 31	11,693,341	350,800,232	878,920	2,800	881,720	430,024
December.....	31	699 55	22 35	12,216,447	378,710,850	949,760	1,400	951,160	483,675
1868									
January.....	31	739 22	23 51	12,255,233	380,912,240	1,033,280	1,600	1,034,880	435,152
February.....	29	695 17	23 54	13,133,353	380,867,239	925,320	.....	925,320	419,744
March.....	31	742 05	23 57	12,455,113	386,108,511	955,720	.....	955,720	416,661
Totals.....	366	8,384 50	22 57	11,560,730	4,231,791,659	10,546,750	42,800	10,589,550	5,249,533

The operations as shown in the foregoing table have required the machinery to be kept running over 95 per cent. of the whole time during the year. The total actual running time being $8,384\frac{5}{6}$ hours, being an average of nearly 23 hours per day.

The whole amount of coal received during the

year was	$4,851\frac{73}{2000}$ tons.
Amount on hand April 1, 1867	$844\frac{49}{2000}$ "

Of this amount there has been

used for pumping	$5,294\frac{155}{2000}$ tons.
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For keeping steam when at rest,	$21\frac{1}{2000}$ "
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For pipe laying, work shop,	
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heating building, etc., etc..	$215\frac{107}{2000}$ "
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On hand April 1, 1868.....	$163\frac{15}{2000}$ "
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Total.....	$5,695\frac{122}{2000}$ tons.	$5,695\frac{122}{2000}$ tons.
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The expense due to the operation of engines and boilers during the year are as follows:

Salaries of engineers, firemen and others.....	\$11,007.75
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$5,294\frac{155}{2000}$ tons of coal at an average of $\$7\frac{03}{100}$ per ton	37,222.17
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527 gallons oil	610.99
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949 pounds tallow.....	110.95
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Cotton waste	220.31
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Hemp and other packing.....	143.70
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Small stores	95.39
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Gas for lighting works	300.00
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Repairs to engines, boilers, etc.....	504.30
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Total	\$50,215.56
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Cost of delivering water per million gallons.....	\$11.87
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The following tables show the quantity of water pumped each month for the past ten years, also the daily average and annual increase for the same time:

TABLE SHOWING THE QUANTITY OF WATER PUMPED EACH MONTH.

From January 1, 1858, to April 1, 1868.

MONTHS.	1858.	1859.	1860.	1861.	1862.	1863.
January.....	81,538,179	106,905,665	132,284,454	137,651,918	151,971,047	169,900,255
February.....	69,426,515	106,401,412	130,800,720	142,071,067	168,931,783	158,103,450
March.....	82,677,463	102,415,983	150,331,080	135,576,447	192,937,942	159,930,404
April.....	82,600,782	86,994,235	132,930,646	128,371,178	170,081,570	
May.....	82,279,920	116,007,263	141,171,078	150,489,168	181,483,032	
June.....	90,211,505	113,098,416	148,197,024	155,996,352	192,113,518	Hereafter the year
July.....	101,670,736	133,800,336	166,394,640	147,152,783	209,215,872	commences on the
August.....	107,176,682	123,266,556	152,427,690	168,692,494	195,588,295	first day of April.
September.....	108,534,540	131,735,847	132,272,202	162,710,186	186,902,888	
October.....	101,046,605	141,527,040	148,710,195	149,362,166	199,045,045	
November.....	86,386,840	127,342,018	150,493,248	153,879,648	187,002,720	
December.....	98,316,722	122,653,139	130,773,075	145,261,272	175,006,027	
Total.....	1,001,865,457	1,415,147,910	1,716,786,552	1,707,154,689	2,217,279,739	487,939,109

MONTHS.	1863-4.	1864-5.	1865-6.	1866-7.	1867-8.
April.....	173,519,952	178,013,170	189,131,463	260,207,901	281,904,710
May.....	193,119,248	201,471,216	212,375,920	278,006,304	282,813,313
June.....	194,255,701	230,814,576	249,935,040	271,415,472	318,358,925
July.....	209,332,677	223,227,723	254,045,040	310,687,104	363,322,276
August.....	217,561,920	257,109,360	255,641,034	299,800,632	375,441,736
September.....	217,229,652	237,137,038	260,145,900	262,016,784	354,965,654
October.....	185,678,001	191,542,516	246,406,039	264,920,802	377,565,973
November.....	176,132,600	165,033,042	200,101,293	224,726,521	350,800,232
December.....	199,592,696	208,044,966	192,616,708	211,366,383	378,710,850
January.....	209,884,992	232,131,600	236,844,455	239,410,174	380,912,240
February.....	176,088,647	189,244,751	227,597,773	257,166,480	380,867,239
March.....	183,712,298	209,669,280	246,776,084	269,036,652	386,108,511
Total.....	2,336,108,454	2,523,339,218	2,777,817,349	3,168,760,609	4,231,791,659

Table showing the average daily quantity of water pumped, together with the annual increase for the following years :

Years	Per cent.	Average daily quantity of water pumped.	Annual increase.
1858	20.7	2,991,412	
1859	29.7	3,877,118	323,282,453
1860	21.3	4,703,525	301,638,642
1861	2.7	4,841,547	50,368,137
1862	25.5	6,074,739	450,125,050
1863	5.0	6,382,810	37,081,917
1864	8.3	6,913,258	207,715,858
1865	10.0	7,610,459	254,478,131
1866	14	8,681,536	390,943,260
1867	33	11,562,273	1,063,031,050

MACHINE SHOP.

For a number of years the work of manufacturing hydrants, stop-valves, and doing other work for the city, was carried on in a small shop composed of a portion of one of the coal sheds. Of late years, however, this shop had become too small to meet the demands upon it for the work necessary for the city, and when the plans for the reconstruction of the works were made, they embraced a building for new shops.

The building erected for this purpose was completed last fall, and occupied in February last.

The building is a very substantial and tasty structure, two stories high, built of brick. The first story is devoted to machine, blacksmith, carpenter shops, and stables. The upper story is also well adapted to like work, but is at present used for storage, etc.

The ample proportions and convenient arrangement of the new building affords satisfactory facilities for carrying on the work more expeditiously and with greater economy than heretofore, and will, no doubt, answer the purpose for which it is intended for a number of years to come.

During the past year there were manufactured of new fire
hydrants 207

New stop valves, as follows:

4 inch	31
6 "	36
8 "	12
Total	79

In addition to these a number of old hydrants and stop valves were repaired, besides, a variety of work was done for the various departments of the city.

The total expenditure for labor and material in the foregoing work is.....	\$10,887.92
Add for interest and depreciation of tools	400.00
Value of work done at less than current rates	\$15,757.53
Leaving as earnings for the shop during the year	4,469.61
	<hr/>
	\$15,757.53 \$15,757.53

There are remaining on hand of new hydrants.....	38
New 4 inch stop valves,.....	10
“ 6 “ “ “	7
“ 8 “ “ “	1
Total,.....	18

The value of these, together with the raw material on hand, amounts to.....	\$3,148.75
Value of tools and patterns.....	2,000.00
Total.....	\$5,148.75

The general condition of the pumping machinery remains about the same as date of last report. No accident worthy of mention has occurred during the year, therefore no repairs of an

important character have been done upon the engines. The boilers, however, have received some little attention in this particular.

In consequence of the delay in completing the north wing of main building, and the unfinished condition of the connection of the tunnel with the new pump well, as well as that of laying the connecting mains between engines and new water tower, the new engine was not used for some time after it was completed. On the 20th of July, the work alluded to had so far progressed as to admit water to the new pump well. The new engine was then started, and after making some alterations in the face of pump valves, by substituting wood for rubber, and placing additional fastenings upon columns, it has continued in operation most of the time since then, giving general satisfaction.

A glance at the foregoing tables will show that during the past year the demand for water greatly exceeded that of any former year, and may be regarded as a fair index of the future.

It will be observed that while the daily average quantity pumped for the year was about eleven and a half millions gallons, yet it is proper to mention that on several days in July and August of the present year, the quantity of water pumped averaged about eighteen millions for the twenty-four hours, and at times, during some of those days, the pumping was at the rate of nearly twenty millions.

It will be noticed, also, by the accompanying tables, that the consumption of water has about doubled each five years during the past decade.

If this increase should continue in the same ratio in the future, and it is highly probable that such will be the case, the *united* capacity of the present machinery will be taxed to its maximum to meet the average demand, but when cases occur as cited above, where the quantity of water required for a number of hours, so far exceeded the general average for the year, it may be taken as the *true* measure of capacity for the anticipated future increase.

The past year has been an eventful one in the history of this department. Much important work has been done, and many

changes made, necessary to meet the constantly increasing demand for water.

During the year, the last vestige of what was once one of the "landmarks" of our city has passed away. The old and stately brick building, with its *leaning water tower*, have passed into memory. They had stood the summer's sun and winter's blast for sixteen years, and from their portals thousands of millions of gallons of water have passed upon its mission of health, wealth and prosperity to our citizens. Not a brick is left to mark the spot where the old buildings once stood, but the many hours of labor and anxiety experienced within their walls by yourself and others, in the discharge of professional duties, cannot well be forgotten. Chicago has outgrown her water works of sixteen years ago. To-day, upon the site of the old buildings, stand in their stead, white stone structures, which for beauty, strength and magnitude, are probably unsurpassed by any buildings in the United States for like purposes. The works were first started for regular supply early in 1854. For more than a year thereafter, the city was supplied by a small high pressure engine, and required from six to ten fire hydrants to be open in order that the water might pass off freely. Now, about fourteen millions gallons are used daily, and as the water pipes are being continually and rapidly extended, it will not be difficult to estimate the quantity that will be required in the future. It seems apparent, therefore, that to meet any considerable increase in the consumption of water, with that degree of safety and surety which the peculiar character of our works demands, our pumping facilities will soon need the additions which have heretofore been anticipated, and which are already provided for in the new buildings. Nor will even this constitute the end, because it is presumed that the extent and capacity of a water supply must necessarily be co-extensive with the growth and prosperity of the locality in which it may be located. Hence, it may be safe to hazard the probability that the *final completion* of our water works, will probably occur simultaneous with that of our city.

The delay in issuing this report enables me to record here that the south "shell curb" has been built and sunk to the required

depth, by R. E. Moss, Esq., the contractor, and at this writing, A. Walbaum, Esq., the contractor for building, is making rapid progress towards the final completion of the south wing and boiler room. A full and detailed description of the work done during the past two years will be necessary in order to fully comprehend the magnitude and varied character of the additions and improvements made, but as the illustrations heretofore promised, which are deemed necessary to accompany a description of the kind, are in an unfinished state, and as this report is over due, their issuance must be again deferred.

Respectfully,

DEWITT C. CREGIER,

Engineer.

CONNECTION BETWEEN LAKE TUNNEL AND PUMPING WELL.

The gate chamber and connections between it and the new, or north, and the old pumping wells were completed during the municipal year. A branch tunnel from the connection between the gate chamber and the proposed south pumping well, was carried so far as it prudently could be before this well was sunk. A branch tunnel was also made from the gate chamber for about 160 feet towards the lake, to serve as a part of the proposed supplementary or shore tunnel, to be used in case the lake tunnel should require cleansing or repairs, and in anticipation of the entire abandonment, as an inlet, of the present basin.

Owing to the unusual amount of work required of this department during the year, it has not been possible to prepare suitable plans and descriptions of the lake tunnel, new engine and other portions of the new or enlarged water works; but it is hoped and believed that such will be presented in the next Annual Report.

The *temporary connection* between the lake tunnel and the old inlet served a most useful purpose in supplying the city with pure water very nearly a year before the completion of the gate chamber and connections with the pumping wells. It is a great pity the beautiful, sparkling, bubbling well in the temporary shaft, viewed with delight by so many visitors, could not be made a perpetual feature of the water works; but the completion and use of the permanent connections with the pumping wells, does away with the necessity and desirableness of using the temporary inlet and shaft any longer. In fact, a very recent examination of the old inlet showed that structure to be in such a dilapidated state that its usefulness would soon have terminated, even if the lake tunnel had not been constructed.

INLET BASIN.

This is more dilapidated than ever. The possibility, however, that something might happen to the lake tunnel to suspend its use for a season, leads to such a care of the basin as would make it capable of serving as an inlet again, if necessary. This is particularly the case while there is any doubt on the part of the Board as to the propriety of completing the supplementary or shore tunnel.

DISTRIBUTING PIPES.

There were laid during the year ending March 31st, 1868, the following main and distributing pipes, viz:

SOUTH DIVISION.

ON WHAT STREET.	BETWEEN WHAT STREETS.	Diameter in inches.	Length in feet.
Douglas avenue.	From Cottage Grove avenue west.....	4	680
Hanover street.	Archer avenue and McGregor.....	6	1,200
Twenty-third st.	Wentworth avenue and Hanover.....	4	1,880
Calumet avenue.	Twenty-fifth and Twenty-sixth streets.....	6	700
" "	Twenty-third and Twenty-fourth streets	6	786
Ellis avenue....	From Douglas avenue south.....	4	1,425
Twenty-fifth st.	Calumet and Cottage Grove avenues.....	6	114
" "	State street and Wabash avenue.....	4	490
Deering street..	Archer avenue and Thirty-first street.....	6	1,680
Haddock Place.	La Salle street and Wabash avenue	8	1,822
Quarry street ..	From end of pipe north.....	6	530
Twentieth street	Wentworth avenue and Grove.....	4	1,070
Purple street...	Elgin and Twenty-first	4	240
Wabash avenue.	Twenty-fifth and Twenty-sixth.....	6	614
Wabash avenue.	Lake and South Water.....	8	486
Indiana avenue.	From Twenty-ninth street north.....	6	500
Douglas avenue.	From east end of pipe east	4	159
Kankakee ave..	Twenty-fourth and Twenty-fifth	6	700
Twenty-seco'd st	State and Burnside.....	4	430
Prairie avenue .	Twenty-second and Twenty-third.....	6	670
La Salle street..	Madison and Van Buren	6	1,925
La Salle street..	Madison street and Haddock Place.....	8	1,660
State street.....	From Twenty-ninth north.....	8	3,045
Michigan ave....	From Thirty-first st. south.....	6	490
Michigan ave....	Lake and Randolph.....	6	500
Butterfield st..	Sixteenth and Seventeenth.....	4	400
Church Place ..	From Archer avenue north.....	4	450
Jackson street..	La Salle street intersection	4	150
	Hydrants	4	692
Total.....			25,488

WEST DIVISION.

Adams street...	From end of pipe west.....	6	130
Aberdeen street.	Taylor and Eleventh.....	4	430
Aberdeen street.	Harrison and Gurley.....	4	480
Aberdeen street.	From Van Buren north.....	4	200
Brown street...	From Twelfth south.....	4	2,025
Blue Island ave.	Twelfth and Catherine.....	6	2,430
Barber street...	From end of pipe to Halsted.....	4	280
Catherine street.	Blue Island avenue and Morgan street.....	4	1,945
Canal street...	Taylor and Forquer.....	6	286
Carroll street...	Lincoln and Robey.....	4	740
Coolidge street..	Loomis and Reuben.....	4	1,314
Centre avenue..	Polk and Taylor.....	6	897
Centre avenue..	From Twenty-second north.....	6	750
Eighteenth st. .	Halsted and Union.....	6	662
Chicago avenue.	From Carpenter east.....	16	2,000
Chicago avenue.	From Carpenter east.....	24	100
Cornell street...	Chase and Rose.....	4	1,020
Carpenter street	Front and George.....	4	376
Carpenter street	Chicago avenue and Third.....	8	1,090
Carpenter street	Chicago avenue intersection.....	8	40
Canalport ave..	Union and Halsted.....	6	450
Cornelia street..	Milwaukee avenue and Noble street.....	4	835
Dekoven street..	Clinton and Canal.....	4	400
Dix street.....	From Fifth north.....	4	200
Emma street...	Milwaukee avenue and Reuben street.....	4	1,080
English street..	Union and Halsted.....	4	530
Elston road	From Milwaukee avenue north.....	4	1,210
Elston road.....	From Milwaukee avenue north.....	6	920
Ewing street...	From Canal street east.....	4	230
Front street....	Carpenter street and Elston road.....	4	800
First street....	From Reuben west.....	4	680
Fulton street..	Wood and Lincoln.....	4	650
Fulton street...	Paulina and Reuben.....	4	430
Fulton street...	Elizabeth and Ada.....	4	510
Grover street...	Chicago avenue and George street.....	6	790
George street ..	Grover street and Elston road.....	4	360
Gold street....	Harrison and Gurley.....	4	495
Hubbard street.	Elizabeth and Reuben.....	6	2,224
Halsted street ..	Harrison and Taylor.....	6	395
Halsted street ..	Chicago avenue intersection.....	6	154
Honore street ..	Monroe and Jackson.....	6	950
Harrison street.	From end of pipe west.....	6	350
Hamilton street	From Monroe south.....	4	340
Hunt street....	From end of pipe west.....	4	345
Indiana street..	Paulina and Reuben.....	4	680
Indiana street..	End of pipe and Bickerdike.....	4	900
Johnson street .	Taylor and Twelfth.....	4	870
Johnson street .	Twelfth and Maxwell.....	6	480
Lake street	Leavitt street and Western avenue.....	4	1,316
Lake street	Wood and Lincoln.....	6	660
Lisle street....	Union and Halsted.....	4	530
Lincoln street..	Madison and Adams.....	6	1,050
Leavitt street..	From Lake north.....	6	570
Lafin street...	From Madison south.....	4	320
Morgan street..	From Third south.....	8	1,540
Morgan street..	From Randolph north.....	8	3,065
Miller street ...	Harrison and Taylor.....	4	1,810
McHenry street.	From Waubansa avenue north.....	4	516

WEST DIVISION.---Continued.

Maxwell street..	From Stewart avenue west.....	6	270
Mitchell street..	Blue Island avenue and Rucker.....	4	100
May street.....	From Twenty-second north.....	6	500
Milwaukee ave..	From Augusta northwest.....	6	1,175
Monroe street..	From Hoyne west.....	4	412
Monroe street..	From Reuben east.....	4	450
Monroe street..	Lincoln and Honore.....	4	364
Mark street....	Chicago avenue and Second.....	4	675
Noble street....	Chicago avenue and Second.....	6	800
Noble street....	From Chicago avenue north.....	6	50
Peoria street...	Van Buren and Jackson.....	4	482
Peoria street...	Monroe and Madison.....	4	480
Park avenue....	Leavitt and Oakley.....	6	700
Paulina street..	Fourth and Indiana.....	6	550
Reuben street..	First and Third.....	6	790
Robey street...	Madison and Van Buren.....	6	1,900
Randolph street	Union Park and Sheldon.....	6	440
Centre avenue..	Milwaukee avenue and George.....	6	716
Centre avenue..	Taylor and Twelfth.....	6	712
Sebor street....	Clinton and Jefferson.....	4	443
Sangamon street	Adams and Van Buren.....	4	990
Seward street..	Sixteenth and Canalport avenue.....	4	442
Tyler street....	Morgan and Aberdeen.....	6	780
Taylor street...	Sholto and May.....	6	504
Taylor street...	Jefferson and Clinton.....	6	420
Third street....	From Carpenter west.....	4	900
Third street....	Morgan and Carpenter.....	8	400
Third street....	Reuben and Paulina.....	4	514
Union street....	O'Brien and Maxwell.....	6	460
Jefferson street.	Polk and Ewing.....	4	290
Will street.....	Milwaukee avenue and Augusta.....	4	580
12th street.....	Loomis and Reuben.....	8	1,350
Gurley street...	End of pipe and Aberdeen.....	4	165
4th street.....	Reuben and Paulina.....	4	686
4th street.....	Union and Desplaines.....	4	470
4th street.....	Carpenter street intersection.....	6	50
5th street.....	Front and Dix.....	4	600
Washington st..	Lincoln and Robey.....	4	900
Washington st..	Wood and Paulina.....	4	714
Washington st..	End of pipe and Sheldon.....	4	780
Walnut street..	Paulina and Robey.....	4	1,089
2d street.....	Mark and Rucker.....	4	280
2d street.....	Noble and Paulina.....	4	2,350
	Hydrants.....	4	1,589
Total.....			76,142

NORTH DIVISION.

ON WHAT STREET.	BETWEEN WHAT STREETS.	Diameter in inches.	Length in feet.
Chicago avenue	Main pipe at Engine House.....	28	160
Chicago avenue	Main pipe at Engine House.....	24	740
Chicago avenue	From east end of pipe towards the Lake.....	4	180
Superior street..	Clark and La Salle.....	4	430
Superior street..	Kingsbury and Townsend.....	4	420
Townsend street	Oak and Division.....	6	1,465
Pleasant street..	Division and Vedder.....	4	540
Larrabee street..	Oak and Division.....	6	1,400
Larrabee street..	Grant place and Grove.....	6	700
Bremer street...	Oak and Division.....	6	1,200
Sedgwick street..	End of pipe and Division.....	6	1,375
Sedgwick street..	From Grant place south.....	6	1,200
Sedgwick street..	Wisconsin street and Asylum place.....	6	1,200
Mohawk street..	From Black Hawk north.....	6	564
Mohawk street..	Linden street and Centre street.....	4	1,927
Centre street...	Sedgwick and Hurlbut.....	6	678
Church street..	Wisconsin and Centre.....	4	700
Lincoln avenue.	From Sedgwick north.....	4	700
Lincoln avenue.	Larrabee street intersection.....	6	145
Hurlbut street..	Asylum place and Fullerton.....	6	1,444
Hurlbut street..	From North avenue south.....	6	440
Franklin street.	Wisconsin and Menominee.....	4	670
Franklin street.	Sigel and Schiller.....	4	380
Clark street....	From City R. R. Stables to Maple street.....	6	290
White street....	State and Cass.....	4	430
Erie street.....	Pine and St. Clair.....	4	513
Illinois street..	From St. Clair east.....	4	490
Hobbie street..	Larrabee and Crosby.....	6	448
Crosby street...	From end of pipe north.....	4	316
Wesson street..	Oak and Division.....	4	1,360
Oak street.....	Bremer and Larrabee.....	4	60
Dearborn street.	From Schiller north.....	4	970
Grant place....	From end of pipe to Larrabee.....	4	1,150
Asylum place..	Larrabee street intersection.....	6	140
Grove street....	Larrabee and Orchard.....	4	665
Hinsche street..	Black Hawk street and Clybourne avenue....	4	370
Market street...	Division and Elm.....	4	350
Elm street.....	From Market east.....	4	40
	Hydrants.....	4	639
Total			26,889

Giving a total of $24\frac{34}{100}$ miles of pipe laid during the year, about $1\frac{1}{2}$ miles of which was on streets in which the increased demand for water rendered it necessary to take up the smaller and lay down larger sized pipe.

The total length of pipes, of different sizes, in the city April 1st, 1868, as nearly as can be ascertained, is as follows, viz:

	Feet.
28 inch cast iron main.....	160
24 " " "	22,922
16 " " "	12,610
12 " " "	9,830
30 " wrought iron river pipe, State street.....	280
24 " " " " Chicago avenue.....	236
24 " " " " Rush street	530
12 " " " " Adams street.....	176
12 " cast iron distributing pipe	844
10 " " " " "	7,862
9 " wrought iron distributing and siphon pipe, on Archer avenue.....	90
8 " cast iron distributing pipe.....	85,432
6 " " " " "	328,684
4 " " " " "	448,969
3 " " " " "	28,566
	<hr/>
	947,191

or 179 miles and 2,071 feet.

Observations made in previous reports relative to the necessity of more large sized pipes, may be, with much propriety, renewed in this. Great relief has been given to the northwest portion of the city by the laying of the sixteen inch main on Chicago avenue, between Union and Carpenter streets, and there connecting with the eight inch pipe laid northward last year on Morgan and Carpenter streets. Other parts of the city would be nearly or quite as much benefited as this by larger mains.

HYDRANTS.

During the year the following new hydrants were established,
viz. :

SOUTH DIVISION.

- 1 S. W. corner Hanover and McGregor streets.
- 1 S. W. " " " Bushnell " "
- 1 N. W. " Ellis and Wahpanseh avenues.
- 1 N. W. " Deering and Lyman streets.
- 1 S. W. " " " Thirty-first streets.
- 1 S. W. " " street and Archer avenue.
- 1 N. E. " Twentieth and Grove streets.
- 1 N. W. " " " Purple " "
- 1 S. W. " Wabash avenue and Twenty-sixth street.
- 1 N. W. " " " " Twenty-fifth " "
- 1 N. W. " State and Twenty-fifth streets.
- 1 N. W. " Indiana avenue and Twenty-ninth street.
- 1 N. W. " Kankakee avenue and Twenty-fourth street.
- 1 N. W. " " " " Twenty-fifth street.
- 1 N. E. " Twenty-second and Burnside streets.
- 1 S. W. " La Salle and Monroe streets.
- 1 S. W. " " " Adams streets.
- 1 N. W. " State and Twenty-sixth streets.
- 1 N. W. " " " Twenty-seventh streets.
- 1 N. W. " " " Twenty-ninth streets.
- 1 S. E. " Jackson and La Salle streets.
- 1 N. W. " State and Twenty-fourth streets.
- 1 N. W. " " " Twenty-third streets.
- 1 W. side of Quarry street north end of pipe.
- 1 S. W. corner La Salle and Lake streets.
- 1 N. side of Douglas avenue, 600 feet west of Cottage Grove.
- 1 Archer avenue opposite McGlashen street.

- 1 S. E. corner Harrison and State streets.
- 1 N. W. " Indiana avenue and Twenty-first street.
- 29 Total in the South Division.

WEST DIVISION.

- 1 N. W. corner Washington and Robey streets.
- 1 N. W. " Walnut and Lincoln streets.
- 1 N. E. " Milwaukee avenue and Emma street.
- 1 N. side of Emma street, west end of pipe.
- 1 E. " Milwaukee avenue, at N. W. end of pipe.
- 1 S. W. corner Rucker and George streets.
- 1 S. E. " Carpenter and George streets.
- 1 S. W. " Noble and Second streets.
- 1 N. E. " Lake street and Western avenue.
- 1 N. W. " Lake and Oakley streets.
- 1 N. W. " Hubbard and Armour streets.
- 1 N. W. " " " Noble streets.
- 1 N. E. " " " Elizabeth streets.
- 1 N. W. " Indiana avenue and Renben street.
- 1 S. W. " Sangamon and Van Buren streets.
- 1 S. W. " " " Jackson streets.
- 1 N. W. " English and Union streets.
- 1 N. W. " Lisle and Union streets.
- 1 N. W. " Brown and Twelfth streets.
- 1 E. side Blue Island avenue, opposite Coolidge street.
- 1 E. " " " " Hastings street.
- 1 N. W. corner Aberdeen and Eleventh streets.
- 1 N. W. " Third and May streets.
- 1 N. W. " Second and Rucker streets.
- 1 N. W. " Cornelia and Noble streets.
- 1 N. W. " Park avenue and Oakley street.
- 1 N. W. " " " Leavitt street.
- 1 N. E. " Coolidge and Laflin streets.
- 1 N. E. " " " Reuben streets.
- 1 N. W. " Brown and Maxwell streets.
- 1 S. W. " " " Mitchell streets.
- 1 N. W. " Jefferson and Ewing streets.
- 1 N. E. " Twelfth and Reuben streets.

- 1 N. W. corner Twelfth and Laflin streets.
- 1 N. W. " Aberdeen and Gurley streets.
- 1 S. W. " Miller and Polk streets.
- 1 N. E. " Catherine street and Blue Island avenue.
- 1 N. W. " " and Morgan streets.
- 1 N. W. " " and Margaret streets.
- 1 N. W. " George and Grover streets.
- 1 N. E. " Front street and Elston Road.
- 1 N. W. " Second and Paulina streets.
- 1 S. W. " Reuben and Second streets.
- 1 S. W. " " " Third streets.
- 1 N. W. " Indiana and Bickerdike streets.
- 1 N. W. " " " Noble streets.
- 1 N. W. " " " Ada streets.
- 1 S. W. " Lincoln and Adams streets.
- 1 N. E. " Monroe and Honore streets.
- 1 S. W. " " " Robey streets.
- 1 S. W. " Union and O'Brien streets.
- 1 N. W. " " " Maxwell streets.
- 1 N. W. " Morgan and Fourth streets.
- 1 N. W. " Third and Morgan streets.
- 1 N. W. " Honore and Jackson streets.
- 1 N. W. " Carroll and Robey streets.
- 1 N. W. " Johnson and Maxwell streets.
- 1 N. W. " Randolph and Sheldon streets.
- 1 W. end of pipe on Randolph street, at Union Park.
- 1 S. W. corner Robey and Adams streets.
- 1 S. W. " " " Jackson streets.
- 1 N. W. " Fourth and Reuben streets.
- 1 S. W. " Paulina and Fourth streets.
- 1 N. W. " Elston Road and Augusta street.
- 1 E. side of Elston Road, at north end of pipe.
- 1 Engine House on Lake street, west of Reuben street.
- 1 N. W. corner Washington and Paulina streets.
- 1 N. W. " " " Page streets.
- 1 N. W. " Centre avenue and Second street.
- 1 E. side Blue Island avenue, opposite Sampson street.
- 1 N. W. corner Morgan and Lake streets.
- 71 Total in West Division.

NORTH DIVISION.

- 1 N. E. corner Superior and Kingsbury streets.
- 1 N. W. " Larrabee and Hobbie streets.
- 1 N. W. " " Elm streets.
- 1 N. W. " Bremer and Hobbie streets.
- 1 N. W. " " Elm streets.
- 1 N. W. " Sedgwick and Hobbie streets.
- 1 N. W. " " Elm streets.
- 1 S. W. " " Sophia streets.
- 1 N. W. " " street and Asylum place.
- 1 S. W. " Church and Centre streets.
- 1 N. W. " " Wisconsin streets.
- 1 S. W. " Hurlbut street and Asylum place.
- 1 S. W. " Wesson and Division streets.
- 1 N. W. " " Hobbie streets.
- 1 N. W. " " Elm streets.
- 1 N. W. " Dearborn street and Burton place.
- 1 S. W. " Hurlbut street and Fullerton avenue.
- 1 N. W. " Grant place and Clark street.
- 1 W. side Larrabee street, opposite Grant place.
- 1 S. W. corner Larrabee and Grove streets.
- 1 S. E. " Lincoln avenue and Asylum place.
- 1 N. E. " Grove and Orchard streets.
- 1 N. E. " Hobbie and Crosby streets.
- 1 W. side Church street, north end of pipe.
- 1 N. E. corner State and Banks streets.
- 1 N. W. " Chicago avenue and Pine street.
- 1 N. W. " Townsend and Elm streets.
- 1 S. W. " State and Oakwood streets.
- 1 At the Water Works machine shop.
- 29 Total in the North Division.

In all 129, making the total number in and belonging to the city, April 1st, 919. Ninety were taken out and renewed during the year, and eleven received more or less repairs.

Owing to the fact of there having been very little snow on the ground during the winter, the frost penetrated to a greater than ordinary depth, yet but 274 of the hydrants, or only about one-

half the number reported last year got frozen and had to be thawed out. As fast as the extensions of the sewers will permit, the hydrants are being connected, which renders them less liable to freeze.

STOP-COCKS.

The following stop-cocks have been put in during the year,
viz:

SOUTH DIVISION.

- 1 4 inch, Wentworth avenue, south line of Sixteenth.
- 1 8 " Haddock Place, east line of State.
- 1 8 " " " west line of State.
- 1 6 " Hanover, south line of Twenty-fourth.
- 1 4 " Ellis avenue, south line of Douglas avenue.
- 1 6 " Prairie avenue, south line of Twenty-second.
- 1 6 " La Salle, north line of Adams.
- 1 4 " Twenty-fifth, east line of State.
- 1 6 " Michigan avenue, south line of Thirty-first.
- 1 8 " State, south line of Twenty-fourth.
- 1 8 " Haddock Place, east line of Clark.
- 1 6 " Kankakee avenue, south line of Twenty-fourth.
- 1 6 " Calumet avenue, " " "

WEST DIVISION.

- 1 4 inch, Walnut, west line of Lincoln.
- 1 4 " Miller, south line of Polk.
- 1 6 " Hubbard, west line of Rucker.
- 1 4 " Indiana, west line of Reuben.
- 1 4 " Sangamon, south line of Adams.
- 1 4 " Seward, south line of Sixteenth.
- 1 4 " Mark, south line of Chicago avenue.
- 1 6 " Blue Island avenue, south line of Twelfth.
- 1 6 " " " " " " Polk.
- 1 4 " Second, between Noble and end of pipe.
- 1 4 " First, west line of Reuben.
- 1 4 " Second, " " "
- 1 4 " Third, " " "

- 1 6 inch, Honore, south line of Adams.
- 1 6 " Grover, north line of Chicago avenue.
- 1 4 " Carroll, west line of Lincoln.
- 1 6 " Johnson, south line of Twelfth.
- 1 8 " Carpenter, south line of Chicago avenue.
- 1 4 " Fourth, west line of Reuben.
- 1 6 " Hubbard, west line of Elizabeth.
- 1 6 " Lincoln, south line of Adams.
- 1 8 " Chicago avenue, at east end of the bridge.
- 1 6 " Reuben, south line of Adams.
- 1 6 " Chicago avenue, west line of Carpenter.
- 1 6 " Noble, south line of Chicago avenue.
- 1 6 " Rucker, south line of Polk.
- 1 6 " Robey, south line of Adams.
- 1 8 " Halsted, north line of Chicago avenue.
- 1 8 " Halsted, south line of Chicago avenue.
- 1 4 " Jefferson, south line of Polk.

NORTH DIVISION.

- 1 6 inch, Townsend, north line of Oak.
- 1 4 " Pleasant, " " Division.
- 1 4 " Market, " " Chicago avenue.
- 1 6 " Larrabee, " " Oak.
- 1 6 " Sedgwick, " " " "
- 1 4 " Lincoln avenue, west line of Sedgwick.
- 1 4 " White, east line of State.
- 1 3 " Bremer, north line of Oak.
- 1 4 " Wesson, " " " "

In all 52; making, together with those previously put in, 454 in the city to date.

Seventeen stop-cocks were renewed during the year.

RESERVOIRS.

No important change has taken place in these. The same need of improvement in the surroundings of the north and south ones remains.

QUALITY OF THE WATER.

The character of the water furnished by the Lake Tunnel has been a subject of congratulation generally. As compared with what was sometimes necessarily given to the citizens before, it is always excellent, but as compared with itself from day to day, the water flowing through the Lake Tunnel is not always precisely the same either in clearness, taste or temperature. Easterly winds sometimes render the lake slightly turbid miles outside of the crib; an extraordinary freshet in the river at the breaking up of winter, is found to affect for a day at least, both the clearness and taste of the water, and the difference between the cold of winter and the heat of summer necessarily affects, very perceptibly, the temperature of the water, notwithstanding it may be drawn from near the bottom of the lake. It is fortunate the Lake Tunnel was carried out two miles instead of only one, as was seriously proposed at one time. Frequent observations since the completion of this work show conclusively that at a distance of one mile out, the lake is often nearly or quite as much affected by filthy water from the river as it is near the shore.

THE LAKE TUNNEL.

The completion of this work was mentioned in the last Annual Report. It has continued to perform its functions ever since without any indication of injury anywhere except from ice, which piled up at one time in enormous masses against the south side of the crib, and at other times cut grooves into the sheathing around that structure, and on one corner rubbed entirely through the sheathing into the solid timbers. The house or covering of the crib, a very temporary structure, was broken into twice by storms, and had to be repaired; but the lower portion of the crib does not appear to have been moved the slightest appreciable distance from its original position.

At one time the screens put in to keep out fish from the entrance into the Lake shaft were stopped by anchor ice, but as this occurred in the night, the citizens were not aware of the partial stoppage of their usual supply. The screens were taken out and no trouble from this cause has occurred since.

Actual observation shows that the tunnel is capable of supplying more water under a given head than the original estimates called for. This was the case with the Croton and Cochituate aqueducts. Gratifying, however, as this fact is, at the present rate of the growth of Chicago, it is a mere question of time, and not a very long time either, as to when a new tunnel will be required.

SEWERAGE.

CHICAGO, March 31, 1868.

To E. S. CHESBROUGH, ESQ., *City Engineer* :

SIR: Herewith is presented a report for the year ending with date, of the number and location of the sewers laid, of catch basins and manholes built, of repairs and cleansing of the sewers, and of the private drains connected with them, during the said year

The amount of the sewers laid was greater than has been laid by the Board during any previous year, and the season having been unusually dry, the work has been executed in very wet localities in a satisfactory manner.

LENGTH IN FEET OF SEWERS BUILT TO APRIL 1, 1868.

Diameter in feet.	S. DIVISION.			W. DIVISION.			N. DIVISION.			TOTAL THREE DIVISIONS.		
	Previous to April, 1 1867.	From April 1, 1867, to April 1, 1868.		Previous to April 1, 1867.	From April 1, 1867, to April 1, 1868.		Previous to April 1 1867.	From April 1, 1867, to April 1, 1868.		Total Previous to April 1, 1867.	Totals April 1, 1867, to April 1, 1868.	Total Sewers.
6	1,419			1,292			3,895			6,606		* 6,606
5	4,267			28,340	2,515		11,124	2,632		43,731	5,147	48,878
4½	1,033			22,823	8,746		6,238			30,094	8,746	38,840
4	3,286	1,081		14,526	7,726		5,498	1,555		23,310	10,312	33,622
3½				1,332						1,332		1,332
3	17,951	852		1,613	792		5,579	1,120		25,143	2,764	27,907
2½	33,068	10,939					3,544			36,612	10,939	47,551
2¼	6,359									6,359		6,359
2	33,558	5,683		52,070	20,340		47,773	5,261		133,401	31,290	164,691
1	72,000	4,533		33,794	8,473		32,387	7,477		138,181	20,453	158,664
Total.....	172,941	23,044		155,790	48,592		116,033	18,045		444,769	89,681	534,450
Total..	195,985			204,382			134,033			841,269	163,201	1011,170
										5280 miles.	5280 miles.	5280 miles.

CATCH BASINS AND MANHOLES BUILT.

Built from April 1, 1867, to April 1, 1868.				Previously Built.	Total.	Average Cost, 1867.
	S. Div.	W. Div.	N. Div.			
Catch Basins.....	101	253	64	2,234	2,652	\$74.62
Man Holes.....	165	273	117	3,027	3,582	

Of the very large amount of sewers authorized by the Common Council, there remains to be completed the following :

In the West Division, 1,329 ft. of 4 ft. sewers and 1,700 ft. of 12 in. pipe sewer.	Estimated cost,	\$12,644
In the North Division, 3,390 ft. of 12 in. pipe sewer.....	" "	4,237
80 Catch Basins.....	" "	5,600
Total.....		\$22,481

Of the sewers built during the past year, there were 3,125 ft. in the West Division, 2,664 ft. in the South Division, and 2,248 ft. in the North Division, chiefly main sewers, which were on uncompleted contracts of 1866, and the cost of the same amounted to \$44,506.27.

Detailed Statement of the sewers laid from April 1, 1867, to April 1, 1868.

LOCATION.			5 ft.	4 ft.	3 ft.	2½ ft.	2 ft.	1 ft.
SOUTH DIVISION,								
ON WHAT ST.	FROM	TO						
Archer av.....	Ogden Slip.....	North-eastward	1,031					
Twenty-sixth	Calumet av.....	Kankakee av.....		421				
Nineteenth	20 ft. E. of dock line.....	Grove		255				
Eighteenth	So. B. Chicago River.....	Grove		176				
Calumet av.....	Twenty-sixth	Twenty-fifth			665			
Indiana av.....	Twenty-sixth	Twenty-ninth			1,331			
Kankakee av.....	Twenty-sixth	Twenty-ninth			1,335			
Michigan av.....	Twenty-sixth	Twenty-ninth			1,347			
Calumet av.....	Twenty-sixth	Twenty-ninth			1,353			
Prairie av.....	Twenty-sixth	Twenty-ninth			1,338			
Nineteenth	Grove	Burnside			1,531			
Prairie av.....	Twenty-second.....	Twenty-third			680			
Calumet av.....	Twenty-second.....	Twenty-third			688			
Wabash av.....	Twenty-fifth	Twenty-sixth			671			
Prairie av.....	Twenty-fifth.....	Twenty-fourth				686		
Indiana av.....	Center 29th st	South				19		
Kaukakee av.....	Center 29th st	South				18		
Burnside.....	{ Nineteenth	{ Eighteenth					916.5	
	{ Seventeenth	{ Sixteenth						
South Clark	{ Nineteenth	{ Eighteenth					919	
	{ Seventeenth	{ Sixteenth						
Twenty-first	Wentworth av.....	Burnside				872.5		
Twentieth	Archer av.....	Burnside				240		
Twenty-third	Prairie av.....	Westward				82		
Calumet av.....	Twenty-third	Twenty-fifth				1,296		
Wabash av.....	Twenty-fifth	Twenty-fourth				640		
Burnside.....	{ Seventeenth	{ Eighteenth						
	{ Twentieth	{ Twenty-first						
	{ Twenty-first	{ Twenty-second					1,268	
South Clark	{ Seventeenth	{ Eighteenth						
	{ Twenty-second	{ Twenty-first					1,164	
	{ Twenty-first	{ Archer av						
Third av.....	Twelfth.....	Fourteenth					1,263	
Archer av.....	Hanover	Stewart av					622	
Indiana av.....	Wing sewers at 18th 20th and 21st.....						216	
Total South Division			1,031	852	10,939	5,689	4,633	
NORTH DIVISION.								
ON WHAT ST.	FROM	TO						
North Clark	Division	North av.....	2,632					
North av.....	Larrabee.....	Sedgwick	1,317					
Chicago av.....	River	Larrabee	238					
North av.....	Sedgwick.....	Wells		1,065				
Larrabee.....	Chicago av.....	Northward		55				
Schiller	La Salle	Dearborn				891		
Goethe	La Salle	Clark				430		
Whiting	Wells	Franklin				438		
Hinsdale	Wells	Chestnut				509		
Division	State	Eastward				410		
Oak	Rush	Dearborn				665		
Maple	La Salle.....	Dearborn				755		
Elm.....	La Salle.....	Clark				360		
Elm.....	Wells	Eastward				269		
Burton	Clark	Dearborn				407		
Pearson	Pine	Eastward				127		
Bremer	Chicago av.....	Northward					725	
Superior	St. Clair.....	Westward					115	
Indiana	Pine	Eastward					250	
Illinois	Pine	Eastward					240	
Oak	Rush.....	Eastward					760	
Pearson	North Wells.....	Eastward					240	
Pearson	North Market	Westward					240	
La Salle.....	Division	296 ft. N. of Schiller					1,657	
Dearborn	Division	256 ft. N. of Burton					2,262	
Maple	Dearborn	Eastward					311	
Chestnut	Dearborn	Eastward					334	
Chicago av.....	Wing sewers fr. Sedgwick to Kingsbury						343	
Totals, North Division.....			2,632	1,555	1,120	5,261	7,477	

LOCATION.			5 ft.	4½ ft.	4 ft.	3 ft.	2½ ft.	2 ft.	1 ft.
WEST DIVISION.									
ON WHAT ST.	FROM	TO							
Taylor.....	63 ft. w. of Desp. W. line	Halsted..	1,221						
Maxwell.....	Jefferson.....	Halsted.....	1,294						
Van Buren.....	Centre av.....	Loomis.....		1,330					
Taylor.....	Halsted.....	Throop.....		3,328					
Madison.....	Throop.....	Renben.....		1,991					
Adams.....	Loomis.....	Eastward.....		365					
Milwaukee av.....	Chicago av.....	Elston Road.....		384					
Twelfth.....	Centre av.....	Loomis.....		1,348					
Madison.....	Renben.....	Rebey.....		2,661					
Chicago av.....	Centre av.....	Renben.....		2,662					
West Indiana.....	Centre av.....	Noble.....		1,329					
Lake.....	Renben.....	Paulina.....		726					
West Erie.....	Milwaukee av.....	Sangamon.....		79					
Eighteenth.....	228 ft. e. of Larr.	Westward.....		269					
Sixteenth.....	Union.....	Halsted.....			523				
Chicago av.....	River.....	Westward.....			269				
Leavitt.....	Washington.....	Madison.....					650		
Desplaines.....	Hubbard.....	Fourth.....						785	
Halsted.....	Van Buren.....	Dehoven.....						2,377	
Halsted.....	Twelfth.....	Sixteenth.....						2,662	
Halsted.....	Milwaukee av.....	Fourth.....						392	
Sheldon.....	Randolph.....	Washington.....						499	
Blue Island av.....	Halsted.....	Eleventh.....						2,272	
Renben.....	Lake.....	Park av.....						484	
Morgan.....	Van Buren.....	Jackson.....						435	
Green.....	Van Buren.....	Jackson.....						469	
Green.....	Milwaukee av.....	Fourth.....						81	
Peoria.....	Adams.....	Van Buren.....						938	
Clinton.....	Van Buren.....	Twelfth.....						2,765	
Jefferson.....	Van Buren.....	Twelfth.....						2,766	
Jefferson.....	16 f. s. of n. l. Mhr.	Southward.....						241	
Union.....	Milwaukee av.....	Fourth.....						873	
Union.....	16 f. s. of n. l. Mhr.	Southward.....						234	
Lafin.....	Madison.....	Monroe.....						490	
Lincoln.....	Cent. of Madison.....	Northward.....						25	
Paulina.....	Park av.....	Warren.....						722	
West Erie.....	Milwaukee av.....	Eastward.....						80	
Second.....	Milwaukee av.....	Westward.....						100	
Clinton.....	Sebor.....	Mather.....							706
	Ewing.....	Forquer.....							
	Dehoven.....	Bunker.....							
Jefferson.....	Sebor.....	Mather.....							705
	Ewing.....	Forquer.....							
	Dehoven.....	Bunker.....							
Blue Island av.....	Gurley.....	Hope.....							984
	Ewing.....	Forquer.....							
	Twelfth.....	Eleventh.....							
Monroe.....	Centre of Lafin.....	310 ft. e. & 403 f. w.							713
Park av.....	Renben.....	Page.....							991
Warren.....	Renben.....	Page.....							990
Indiana.....	Milwaukee av.....	Eastward.....							60
Aberdeen.....	Van Buren.....	Jackson.....							436
Centre av.....	Van Buren.....	Jacks n.....							437
Mitchell.....	Canal.....	Jefferson.....							775
Price Place.....	Desplaines.....	Halsted.....							873
Peoria.....	Madis n.....	Monroe.....							449
Brown.....	Twelfth.....	Southward.....							320
Fourth.....	Desplaines.....	Westward.....							24
Total, West Division.....			2,515	8,746	7,726	792		20,340	8,473
" North ".....			2,632		1,555	1,120		5,261	7,477
" South ".....					1,031	852	10,939	5,659	4,533
Totals, each size, in 1867-8, ft.,.....			5,147	8,746	10,312	2,764	10,939	31,290	20,483
Average cost per fo t.,.....			\$8.44	\$7.40	\$7.26	\$6.42	\$4.00	\$2.88	\$1.88

Total feet, 89,681 = $16\frac{5}{8} \frac{201}{80}$ miles.

There has also been laid in Union Park 2680 lineal feet of 12-inch sub-soil drains under the carriage road, bedded in gravel, with open joints.

REPAIRS OF SEWERS, CATCH BASINS AND COVERS.

	R'ps of Sewers.		R'ps Catch Basins.		Repairs of Covers.		Totals, each Division.
	Ft. Rpd.	Cost.	No. of Rpd.	Cost.	No. of	Cost.	
South Division,.....	537	\$809.71	95	\$369.30	Renewed, 126 Repaired, 222	\$1,289.56	\$2,468.57
West Division,	50	195.27	188	1,249.91	Renewed, 135 Repaired, 168	1,020.90	2,466.08
North Division,	1,371	1,503.56	193	2,161.45	Renewed, 120 Repaired, 547	996.76	4,661.77
Total, 3 Divisions,...	1,958	\$2,508.54	476	\$3,780.66	Renewed, 381 Repaired, 547	\$3,307.22	\$9,596.42

CLEANSING OF SEWERS AND CATCH BASINS.

METHOD OF CLEANSING.	South Division.		West Division.		North Division.		Totals.		
	Feet cl'nsd.	Cost.	Feet cl'nsd.	Cost.	Feet cl'nsd.	Cost.	Feet cl'nsd.	Cost.	Per 100 ft.
By Flushing,.....	118,790	\$3,641.22	79,530	\$2,126.24	53,070	\$1,490.18	251,390	\$7,257.64	\$2.88
By Chain Machine,	48,929	4,630.42	41,010	3,615.82	18,377	1,760.86	108,316	10,007.10	8.69
Cleansing Mains by men inside,	200	85.64	36,090	1,433.32	32,390	841.12	68,680	2,360.08	3.43
Totals,.....	167,919	8,357.28	156,630	7,175.38	103,837	4,092.16	428,386	19,624.82	4.58
Cleansing C. Basins,	No. of 848	2,335.46	No. of 921	2,646.63	No. of 695	1,933.90	No. of 2,464	6,915.99	2.80 ea
Total cost of cleans- ing 3 Divisions,...		10,692.74		9,822.01		6,026.06		26,540.81	

The same remarks with regard to the less amount of cleansing of the sewers, required on the paved streets, compared with the unpaved streets, which were made in my report of last year, apply to the work of this year also.

PERMITS ISSUED FOR PRIVATE DRAINS,

to be connected with the sewers, from April 1st, 1867, to April 1st, 1868.

PART OF CITY.	6 inch Drains.	9 inch Drains.	12 inch Drains.	Total in 1867-S.	Total laid previously.	Total, April 1st, 1868.
South Division,	1,383	31	5	1,419	.....	.....
West Division,	1,187	60	3	1,250	.....	.....
North Division,.....	1,019	14	1	1,034	.....	.....
Totals,.....	3,589	105	9	3,703	8,860	12,563

Yours respectfully,

WILLIAM H. CLARKE,
Princ'l Assist. Engineer.

CONDITION OF THE RIVER.

This continues substantially the same as in previous years, so far as occasional offensiveness is considered. The opportunities of pumping at Bridgeport to advantage during very dry weather in the season of navigation, and the small amount of work done at the distilleries on the North Branch, have been very favorable in their effect, so that the natural consequence of the increase of the discharges of the sewers into the river has not been felt.

HARBOR.

The works at the entrance of the Harbor are now entirely carried on by the National Government and the Chicago Dock and Canal Company. The North Pier Extension, it was hoped, might be completed to a point six hundred feet beyond the end of the pier built by the city, but owing to unfavorable weather, and accidents to cribs, during the last season, the work, as it now stands, affords little if any protection to the harbor entrance. Soundings show that during the prevalence of easterly winds this spring, the tendency of the bar to obstruct navigation at the mouth of the river increases at an alarming rate. It is earnestly desired that the government will expend, as soon as possible, a portion of the appropriation for the harbor in dredging out the channel at the end of the pier.

WASHINGTON STREET RIVER TUNNEL.

The contractors for this structure, at the commencement of the year, after removing about 9,800 cubic yards of excavation, and commencing a coffer dam on the east side of the river, abandoned the work, and it was relet to Messrs. J. K. Lake, John Clark and Charles B. Farwell on the 20th of July last. Mr. Clark afterwards withdrew from the company, and Mr. A. A. McDonnell joined it.

About six weeks after the original contractors abandoned the work, the bracing of the deep excavation just east of the river gave way, letting the sides of the cut in and causing considerable

damage to the warehouse of Messrs. Austrian & Leopold, making it necessary to cut off a portion of their building, and also to encroach upon the coal yard of Messrs. Grey & Kellogg on the north side of the street.

The new contractors began their work at the extreme ends of the approaches, and have, up to this time, completed the retaining walls, except coping, of the open approaches. Rather more than one-fifth of the masonry in the arched or covered portion of the tunnel has been laid, including the lower portions of the entrance houses of the foot-way. In consequence of the alteration on the foot-way, a great deal of labor was required in revising and changing the plans and specifications for the whole of the river portion of the tunnel, and of the foot-way from end to end. During most of the winter, work was suspended. A complete description of this work with suitable illustrations, it is hoped, will accompany the next annual report.

DOCK LINE SURVEY.

This was completed about the first of October, and the drawings are nearly finished.

In consequence of the apparent hesitation to incur the great expense of carrying out the proposed widening of the river and branches, a very small force has been employed recently on the plans.

Respectfully submitted,

E. S. CHESBROUGH,
City Engineer.



FINANCIAL STATEMENT.

Trial Balance, Ledger, Board of Public Works, March 31, 1868.

WATER DEPARTMENT.

	DR.	CR.
Water Works.....	\$2,418,402.93	
Water Works—New South Well.....	562.40	
Water Works—New Engine.....	132,980.42	
Water Works—Income.		\$2,244,749.31
Water Works—New Tower.....	90,562.18	
Water Loan Bonds, six per cent.....		1,030,000.00
Water Loan Bonds, seven per cent.....		1,515,000.00
Water Loan Interest.....	878,081.41	
Water Expenses and Repairs	812,139.67	
Discount on six per cent. Water Loan Bonds....	46,637.46	
W. Kimball, Comp. Bond Account.....	62,000.00	
Water Fund in hands of City Treasurer.....	4,188.34	
Water Works Stock.....	25,963.00	
Water Works Coal.....	1,765.47	
Unsettled Coal Accounts		5,584.68
Duncan, Sherman & Co.—Coupon Account.....	127,035 00	
Water Works Service Cocks.....	1,040.71	
Water Pipes	18,501.49	
Pumping Works—Stock on hand	3,770.79	
R. D. Wood & Co.	3,299.16	
Water Works—New Inlet.....	32,219.64	
Water Works—New Shops.....	19,934.32	
Water Works—New Engine House.....	111,249.60	
	<u>\$4,795,533.99</u>	<u>\$4,795,333.99</u>

WATER FUND.

STATEMENT of the Cash Receipts by the Board of Public Works,
from April 1, 1867, to March 31, 1868, inclusive; and detailed
statement of the cost of the various operations conducted by
the Board during the same time:

RECEIPTS.

Proceeds of 663 Bonds.....	\$639,760.23	
Less advanced on same in March, '67..	25,000.00	
		\$614,760.23
Temporary Loans		128,000.00
Water Tax Collected.....		237,467.93
Received for tapping pipes.....		15,165.53
Received for sale of hydrants, materials and labor.....		4,042.78
Received for setting meters		1,364.26
Received for letting on water.....		475.45
Voucher canceled		4,712.18
H. R. Worthington & Co.—refunded on meter bill.....		310.62
Plumbers licenses and bonds... ..		48.05
Interest refunded.....		16.38
		\$1,106,363.41
Balance on hand April 1, 1867.....		8,848.96 \$1,115,212.37

EXPENDITURES.

ADDITION TO WATER WORKS.

DISTRIBUTING PIPES LAID.

	<i>Cash Payment.</i>	<i>True Cost.</i>
Cast iron pipe, 4, 6, 8, and 12 inch.....	\$134,533.22	
Testing and laying pipe, and building catch basins.....	23,973.92	
Trenching and backfilling	18,716.71	
Lead	13,893.91	
Tapers, caps, sleeves, bends and branches,	8,902.50	
Brick	3,991.03	
Hauling pipe	2,857.36	
Paving	2,178.80	
Labor making connection with tower and new engine house	1,462.00	
Lumber	1,026.84	
Cement.. ..	764.81	
Connecting pipe—(plumbers)	716.48	
Hay, oats and feed	464.14	
Drain pipe.....	399.50	
Freight on pipe and boxes	574.63	
Gasket	357.34	
Plugs	270.95	
Coal	199.28	
Tools.....	179.81	
Iron.....	162.51	
Royalty on hydrants	110.00	
Advertising.....	90.69	
Ladles and furnaces	65.86	
Steam fittings.....	53.78	
Stone vault cover	55.00	
Wood	48.00	
Horse blankets and covers.....	45.00	
Repairing plugs.....	43.36	
Pails	36.00	
Horse shoeing	27.00	
Repairing wagons.....	27.10	
Plumbing.....	26.30	
Nails.....	43.75	
Rubber clothing	21.50	
Salt.....	20.10	
Repairing harness.....	15.75	
Lanterns, oil and wick.....	27.90	
Misellaneous.....	16.23	
	<hr/>	\$216,399.06

	<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$216,399.06	
ADD—		
Pipe used previously paid for.....	\$12,666.78	
New hydrants put in.....	4,286.67	
New stop-cocks put in.....	1,327.95	
Tools, materials and labor from shop...	1,021.55	
Discount on seven per cent. bonds.....	13,423.23	
	<u>\$32,726.18</u>	
DEDUCT—		
Labor and materials for private parties.	2,704.71	
	<u>\$30,021.47</u>	\$246,420.53
TEMPORARY CONNECTION WITH LAKE TUNNEL.		
Labor.....	\$990.92	
Lumber	2.16	
	<u>993.08</u>	<u>993.08</u>
Total addition to cost of Water Works, not including new engine and build- ings (at present incomplete).....	<u>\$217,392.14</u>	<u>\$247,413.61</u>
NEW ENGINE.		
G. W. Quintard—on account of engine....	\$24,500.00	
G. W. Quintard—half cost of smoke pipe,	237.50	
Smoke pipe.....	254.00	
Draughtsman.....	250.00	
Carpenter work.....	98.25	
Coal	14.00	
Expenses on box.....	8.80	
Bolts	1.15	
	<u>\$25,363.70</u>	
ADD—		
Alteration of steam and feed pipe.....	\$2,293.49	
Labor on foundation.....	33.53	
Labor and materials at shop.....	73.62	
Discount on seven per cent. bonds sold,	1,553.25	
	<u>\$3,953.89</u>	29,317.59
NEW SOUTH WELL.		
N. S. Bouton & Co —Cast iron shoe.....	\$4,596.60	
Labor.....	633.56	
Draughtsman.....	125.00	
Drain pipe	62.75	
Cement	98.40	
Gravel	33.00	
	<u>5,549.31</u>	
ADD—		
Labor and materials at shop.....	\$13.09	5,562.40
Amounts carried forward,.....	<u>\$30,913.01</u>	<u>\$34,879.99</u>

Amounts brought forward,.....

Cash Payment.

\$30,913.01

True Cost.

\$34,879.99

NEW INLET.

Labor	\$4,247.14	
Draughtsman	250.00	
Cement.....	775.35	
Iron for Gates.....	852.39	
Castings	158.74	
Lumber	162.99	
Valve Pieces.....	221.50	
Coal.....	28.12	
Oakum	26.88	
Pipe.....	23.20	
Lamps, Burners, and Wick.....	18.95	
Shovels and Wheelbarrows.....	17.00	
Pump.....	38.50	
Pails	10.00	
Steel	4.13	
Miscellaneous	6.04	
	<hr/>	6,840.93

Add—

Labor and materials from shop \$442.42

7,283.35

NEW TOWER.

A. Wallbaum, on account of contract	\$33,335.55
A. Wallbaum, extras	510.62
G. W. Quintard, 4 stop cocks.....	3,000.00
Do. cast-iron base for standing column.....	892.50
Do. carting, hauling, & labor on same	434.75
C. Reissig & Co., balance for stand pipe..	742.66
N. S. Boreton & Co., castings for connecting with main	2,778.42
Warren Foundry, pipe.....	2,589.96
F. Letz, extra iron work on stairs and floors ...	1,181.30
Architect	1,600.00
J. Clark & Bro., carpenter work and materials.....	1,090.92
Inspecting	979.50
Twenty-four inch pipe	222.60
Lightning Rod.....	81.48
Gas fitting and fixtures.....	50.00

Amounts carried forward,... .. \$49,490.26

\$37,753.94

\$42,163.34

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$49,490.26	\$37,753.94	\$42,163.34
Signs	21.50		
Printing	20.00		
Coal for Inspector's office	3.51		
	<hr/>	49,535.27	
ADD—			
Labor and materials from shop	509.30		
Discount on seven per cent. bonds sold	3,044.37		
	<hr/>		
	3,553.67		53,088.94
NEW SHOPS.			
C. Paesch, on contract for masonry work.	\$7,990.00		
Do. extras	1,042.42		
W. Goldie, on contract for carpenter work	7,698.42		
Architect	600.00		
Inspector	159.00		
Painting and glazing	200.00		
Filling about building	193.25		
Shafting boxes	146.10		
Carpenter work	131.50		
Advertising	66.74		
Lumber	46.89		
Freight on Castings	26.14		
Hardware ..	19.69		
	<hr/>	18,320.15	
ADD—			
Labor and materials from shop	495.83		
Discount on seven per cent. bonds sold	1,118.34		
	<hr/>		
	\$1,614.17		19,934.32
NEW ENGINE HOUSE.			
A. Wallbaum, on account of contract ...	\$33,100.00		
Do. extras	1,747.77		
J. Clark & Bro., on account of carpenter			
work	10,800.00		
Do. paid F. Letz on roof. ...	7,444.66		
Do. extras ...	1,703.34		
F. Letz, boiler room roof.	2,600.00		
Architect services	1,900.00		
Inspectors	1,388.50		
Walworth, Twohig & Furse, on account of			
heating	1,550.00		
Extra slating	495.85		
Gas fitting and fixtures	456.05		
Painting and glazing	2,100.00		
Plumbing	249.00		
	<hr/>		
Amounts carried forward,.....	\$65,535.17	\$105,609.36	\$115,186.60

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$66,535.17	\$105,609.36	\$115,186.60
Mantles and grates	142.05		
Draughtsman	125.00		
Expenses to N. J. for pipe	145.00		
Lumber.....	192.53		
Labor	257.75		
Lightning rod.....	73.50		
Advertising and Printing	69.06		
Lints, mouldings, and strips	55.73		
Freight on pipe.....	34.16		
Drain pipe.....	30.00		
Signs.....	21.50		
	<hr/>	66,681.45	
ADD—			
Tearing down and cleaning brick.....	3,245.75		
Damper for smoke chimney.....	359.66		
Labor and materials for heating appa- ratus	4.04		
Discount on seven per cent. bonds sold	4,100.58		
	<hr/>		74,391.48
	\$7,710.03	<hr/>	<hr/>
		\$172,290.81	\$189,578.08
		<hr/>	<hr/>

WORKING EXPENSES AND REPAIRS.

EXPENSES AT PUMPING WORKS.

	<i>Cash Payment.</i>	<i>True Cost.</i>
Salary of Engineer and three assistants..	\$ 6,999.96	
Labor	14,279.75	
Coal, 4450 $\frac{1969}{2000}$ tons (cash paid)	25,706.49	
Coal for steaming boilers.....	151.49	
“ “ heating building.....	604.58	
“ “ work shop.....	195.77	
Hydrant castings.....	4,994.23	
Brass castings	2,319.03	
Oil and tallow.....	998.75	
Iron, nuts and steel	877.46	
Sewenk & Homberg, pipe and labor.....	600.75	
Gas.....	459.79	
Waste, gasket and packing.....	513.74	
Rope, cordage, twine and wick	179.91	
Iron, bolts and labor on boiler.....	227.60	
Pipe and lead	168.70	
Blossburg coal.....	112.00	
Putty, varnish, &c.....	77.29	
Hay, oats and feed.....	70.74	
Tools and files.....	81.58	
Leather	67.75	
Four gauges.....	60.00	
Hauling and transferring coal.....	53.80	
Boiler felt.....	65.61	
Use of engine.....	61.00	
Carpenter work.....	50.25	
Hardware	43.50	
Horse shoeing.....	40.50	
Fan	40.00	
Can, pipe and labor	33.38	
Repairing wagon.....	40.80	
Lag screws	37.50	
Red and white lead.....	41.50	

Amounts carried forward,..... \$60,256.21

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$60,256.21		
Lanterns and lamps	25.00		
Plumbing.....	24.05		
Chain	22.00		
Iron bedsteads	24.00		
Diamond work.....	24.00		
Blank books and stationery	22.48		
Rubber clothing.....	18.75		
Soap	15.30		
Drawing paper.....	12.38		
Emery paper.....	10.25		
Flue brush.....	15.00		
Pump	11.50		
Stove pipe.....	10.10		
Tubes	6.00		
Quicksilver	5.10		
Miscellaneous.....	73.87		
	<hr/>	\$60,574.99	
ADD—			
Coal used, previously paid for	\$ 7,181.44		
Coal used not paid for	5,584.68		
Stock of April 1, 1867, used.....	5,336.17		
	<hr/>		
	\$18,102.29		
DEDUCT—			
Hydrants, stop cocks and labor used for, and charged to, extension, repairs, and other water accounts	\$19,096.88		
Hydrants and stop-cocks sold..	289.00		
Labor and white metal.....	55.18	19,441.06	
	<hr/>	<hr/>	
	\$1,338.77		59,236.22
LAKE TUNNEL.			
Labor	\$ 1,011.63		
Light house keeper	930.90		
Use of tugs	1,075.50		
Use of engine	188.39		
Lumber	375.97		
Use of pump.....	131.75		
Oil, chimneys, wicks and lanterns	111.39		
Refreshments for laborers	120.00		
Draughtsman	78.00		
Hose and couplings	64.50		
Fog horn	61.76		
	<hr/>	<hr/>	<hr/>
Amounts carried forward,	\$4,149.79	\$60,574.99	\$59,236.22

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$4,149.79	\$60,574.99	\$59,236.22
Nails and hardware.....	75.38		
Rope, blocks and twine.....	59.82		
Boat	58.25		
Lightning rod on crib	55.26		
Use of surveying instruments.....	40.00		
Brass wire cloth,.....	36.00		
Pipe for crib....	26.65		
Repairing instruments.....	20.35		
Stove	20.00		
Coal	34.97		
Signals	18.00		
Repairing hose.....	6.00		
Miscellaneous	36.81		
		\$4,637.28	
ADD—			
Labor and materials from shop	\$188.08		\$4,825.36
REPAIRS OF PIPES, HYDRANTS, STOP-COCKS, AND MISCELLANEOUS OPERATING EXPENSES.			
Labor	\$13,976.76		
Hydrant inspectors and water police	5,437.50		
Assessments on South reservoir lots	3,121.12		
Assessments on North reservoir lots.....	1,479.17		
Lumber	380.76		
Walk at North reservoir.....	320.30		
Walk at South reservoir	281.50		
Hay, oats and feed	243.53		
Castings	284.35		
Pipe	165.02		
Laying pipe at Archer Road	418.75		
Brick.....	227.00		
Lead	151.21		
Cement.....	120.05		
Express and telegrams on bonds.....	187.63		
Expense of sale of bonds.....	129.54		
Nails.....	110.50		
Coal	91.39		
Pipe and couplings.....	85.00		
Goose necks	85.00		
Rent of stable lot	41.68		
Car fares	80.00		
Amount credited in error refunded	70.73		
Boring Rods	62.90		
Repairing river pipe	89.48		
Amounts carried forward,.....	\$27,640.87	\$65,212.27	\$64,061.58

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,	\$27,640.87	\$65,212.27	\$64,061.58
Police badges	30.00		
Scavenger	30.00		
Salt and lime	21.00		
Hardware	42.82		
Oakum and gasket	38.00		
Plumbing	40.40		
Repairing gas pipe	19.25		
Tools	22.29		
Repairing tools, harness and wagons.	14.75		
Paving	16.00		
Horse blanket and cover.	15.00		
Miscellaneous.	68.57		
	<hr/>	\$27,998.95	
ADD—			
Hydrants used	\$2,592.81		
Stop cocks used.	707.38		
Watching engine house, tower, reser- voirs and lot.	1,086.00		
Labor and material from shop.	259.26		
Depreciation in meters	2,014.80		
	<hr/>		
	\$6,660.25		
DEDUCT—			
Received for shutting off and letting on water.	\$475.45		
Labor	271.31		
Pipe sold	70.73		
Tools, &c., charged stock.	181.00		
	<hr/>		
	\$998.49		
	<hr/>		
	\$5,661.76		
			\$33,660.71
WATER METERS.			
91 meters.	\$12,021.50		
Freight on meters.	705.39		
Machinist	1,149.99		
Meter connections and labor on same.	1,340.55		
Labor	392.00		
Castings	216.89		
Horse keeping	150.30		
Pipe	100.00		
Lumber.	91.74		
Carpenter work.	62.00		
Meter bottoms	61.75		
Meter counters.	41.75		
Repairing wagon.	37.20		
	<hr/>		
Amounts carried forward.	\$16,371.06	\$93,211.22	\$97,722.29

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$16,371.06	\$93,211.22	\$97,722.29
Tools.....	32.28		
Horse shoeing	27.26		
Plumbing.....	19.43		
Horse blanket and cover.....	15.00		
Repairing harness.....	18.75		
Nails	11.00		
Setting meter	5.34		
Tape measure.....	5.00		
Brass head screws.....	2.16		
Spindle packing... ..	3.60		
Miscellaneous.....	27.85		
	<hr/>	\$16,538.73	
DEDUCT—			
Valuation of meters, charged stock....	\$10,825.00		
Received for setting meters.....	1,364.26		
Refunded by H. R. Worthington & Co.	310.62		
	<hr/>		
	\$12,499.88		
ADD—			
Labor and materials from shop.....	68.46		
	<hr/>		
	\$12,431.42		\$4,107.31
OFFICE EXPENSES AND SALARIES.			
Salaries of Commissioners.....	\$3,000.00		
Salaries of Secretary and assistant	1,399.96		
Salary of City Engineer.....	1,500.00		
Salaries of book keeper and assistant ...	1,066.64		
Salaries of clerks.....	3,394.04		
Salaries of Superintendent and one ass't			
Engineer	1,533.32		
Salaries of draughtsmen	1,650.00		
Salaries of messenger, janitor and watch-			
man.....	834.00		
Water assessor and assistant	3,109.92		
Water collectors	3,700.00		
Office rent.....	2,123.53		
Blank books and stationery.....	802.58		
Printing.....	734.47		
Furniture.....	422.68		
Printing and engraving bonds.....	360.00		
Fuel	260.18		
Advertising.....	289.21		
Water rate books	160.00		
Repairs	138.06		
	<hr/>		
Amounts carried forward,.....	\$26,478.59	\$109,749.95	\$101,829.60

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,	\$26,478.59	\$109,749.95	\$101,826.60
Gas fixtures and fitting	92.58		
Painting, graining and varnishing	89.01		
Revenue and postage stamps	80.34		
50,000 water bills	141.00		
Awnings	71.66		
Carpetings, mattings, curtains and paper	70.44		
Cleaning office and towels	61.85		
Tracing and drawing paper	65.82		
Safe	70.00		
Gas	44.13		
Books and papers	41.46		
Hardware, locks and keys	33.82		
Maps of Chicago and map stand	30.50		
Storing and repairing stoves	29.85		
Ice	22.35		
Sprinkling front of office	15.00		
Weather strips	10.48		
Miscellaneous	129.21	27,578.09	
DEDUCT—			
Received for plumbers licenses	48.05		27,530.04
Total operating expenses		<u>\$137,328.04</u>	<u>\$129,359.64</u>

WATER LOAN INTEREST.

	<i>Cash Payment. True Cost.</i>	
Interest on water loan bonds, July 1, 1867, and Jan. 1, 1868, (paid in New York)...	\$123,715.00	
Interest paid by City Treasurer	13,655.00	
Interest on temporary loans	11,003.99	
Interest on mortgage on engine house lot.	2,193.33	
Interest on payment to W. Lill for engine house lot.....	583.62	
Commissions to Duncan, Sherman & Co..	309.29	
Deficiency in former remittances	46.66	\$151,506.89
ADD—		
Amount transferred from discount	\$3,737.74	
DEDUCT—		
Interest on temporary loan refunded...	16.38	
	<u>\$3,721.36</u>	\$155,228.25
BILLS PAYABLE.		
Paid temporary loans	\$350,159.81	
Mortgage on engine house lot.....	30,000.00	
Wm. Lill	9,700.00	\$389,859.81 389,859.81
INCOME.		
Taxes overpaid refunded.....		96.16 96.16
WATER PIPES.		
Pipe purchased and not used.....		18,501.49 18,501.49
COAL.		
Coal purchased and not used		6,236.93
DEDUCT—		
Amount of payment refunded	\$4,712.18	
Received for coal sold	340.63	
	<u>\$5,052.81</u>	
ADD—		
Amount on hand previously paid for	581.35	
	<u>\$4,471.46</u>	1,765.47
R. D. Wood & Co., freight paid on pipe..	3,299.16	3,299.16
William Smith, broken pipe.....	285.78	285.78
Amounts carried forward,.....	<u>\$569,786.22</u>	<u>\$569,036.12</u>

SERVICE COCKS.

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$569,786.22	\$569,036.12
Services of Tappers	\$2,438.00		
Permit clerk.....	537.50		
Taps purchased	6,642.60		
Cast iron boxes	3,349.65		
Hay, oats and feed.....	353.75		
Wagon	240.00		
Horse	150.00		
Harness and repairing harness	80.68		
Advertising.....	58.13		
Horse-shoeing.....	81.54		
Horse-blankets and covers.....	45.00		
Ratchets.....	52.00		
Repairing wagon.. ..	37.60		
Permits returned.....	29.80		
Putting water in tappers' stable.....	20.00		
Two stop-cocks and labor (refunded)....	16.44		
Carpenter work.....	7.50		
Tape measure....	5.00		
Plugs returned.....	2.50		
Miscellaneous.....	19.13		
	<u>\$14,226.82</u>	14,226.82	
ADD—			
Service-cocks previously paid for.....	459.36		
Tools made at shop	87.99		
	<u>14,774.17</u>		
Tools charged stock.....	\$100.00		
Cash receipts for tapping.....	15,165.53		
Service-cocks sold.....	25.44		
Service-cocks on hand April 1, 1868.....	1,040.71		
Profits on service-cock acc't,	1,557.51		
	<u>\$16,331.68</u>	16,331.68	
Total miscellaneous.....		\$584,013.04	\$569,036.12
Total addition to Water Works brought forward.....		217,392.14	247,413.61
Total expenditures for New Engine, New Engine House, New Tower, New Work Shop, New Inlet and New South Well, brought forward.....		172,290.81	189,578.08
Total operating expenses, brought forward.....		137,328.04	129,359.64
Totals.....		\$1,111,024.03	\$1,135,387.45
Total cash expenditures.....	\$1,111,024.03		
Balance in treasury April 1, 1868.	4,188.34		
	<u>\$1,115,212.37</u>		
Total receipts for the year, including balance of April 1, 1867	1,115,212.37		

SEWERAGE DEPARTMENT.

Trial Balance, Ledger, Board of Public Works, March 31, 1868.

	<i>Dr.</i>	<i>Cr.</i>
Sewers, North Division.....	\$409,756.73	
Sewers, South Division.....	551,885.43	
Sewers, West Division.....	800,886.95	
Haley Slough.....	72.14	
S. Lind, Treasurer Sewerage Commissioners.....	109,245.48	
Sewerage Loan Bonds, 6 per cent.....		\$87,000.00
Sewerage Loan Bonds, 7 per cent.....		1,612,000.00
Sewerage Loan Bonds Canceled.....		160,000.00
Sewerage Sinking Fund... ..		59,104.53
Sewerage Sinking Fund Mortgages.....	5,867.10	
Discount on Sewerage Bonds.....	19,266.71	
Sewerage Loan Interest.....		93,978.95
Busch & Brand.....		626.37
Trustees Chicago Theological Seminary.....		1,200.00
Sewerage Pipes.....	5,410.82	
Sewerage Brick.....	6,500.00	
Sewerage Stock.....	4,282.42	
American Exchange National Bank.....	105,775.00	
House Drains.....		954.28
Dennis Coughlin.....	1,561.51	
Galena and Chicago Union Railroad Co.....		382.55
Sewerage Fund in hands of Treasurer—due him..		36,418.40
East ½ Lot 3, Block 4, Kinzie's Addition.	68.50	
South ½ Lot 5, Block 123, School Section	22.18	
Z. Cobb, Agent 80 feet W. ½ Lot 7, Block 35, O. T.	31.53	
Pittsburgh, Fort Wayne and Chicago Railway Co.		616.84
Chicago, Burlington and Quincy Railway Co.....		6,744.01
Owners Lots 1, 2, 7 & 8, Block 5, J. R. Storrs' Ad..	94.54	
Cement Account... ..	157.36	
Sewerage Sinking Fund with Treasurer.....	4,114.65	
Sewerage Man Hole and Catch Basin Covers....	4,079.06	
Sewerage Expenses and Repairs.....	16,357.61	
West Madison Street Drains.....	110.66	
South Wells Street Drains.....	198.96	
Amounts carried forward.....	\$2,045,745.84	\$2,059,025.93

	<i>Dr.</i>	<i>Cr.</i>
Amounts brought forward,	\$2,045,745.84	\$2,059,025.93
Washington Street Drains	8.05	
La Salle Street Drains.....	456.32	
Griswold and Sherman Street Drains.....	541.50	
Filling North Market Street.....	1,205.70	
Filling Harrison, Polk and Taylor Streets....	312.80	
Woodruff & Raffin.....	72.00	
Michigan Avenue Drains.....	3,244.50	
Chicago Avenue Drains.....	350.60	
Milwaukee Avenue Drains	1,494.74	
Market Street Drains.....	826.61	
Halsted Street Drains.....	533.50	
North Clark Street Drains....	918.90	
South Clark Street Drains.....	1,029.07	
Indiana Avenue Drains.	1,676.80	
Kinzie Street Drains.....	609.00	
	<u>\$2,059,025.93</u>	<u>\$2,059,025.93</u>

SEWERAGE FUND.

STATEMENT of the Cash Receipts by the Board of Public Works
from April 1, 1867, to March 31, 1868, inclusive, and detailed
statement of the cost of the various operations conducted by
the Board during the same time.

RECEIPTS.

Proceeds of 359 seven per cent. bonds sold.....	\$341,590.16	
Received from sewerage tax of 1867	178,445.45	
Received from sewerage tax of 1866	9,148.79	
Received from temporary loans	101,000.00	
Received from permits issued	16,545.70	
Received from materials sold.....	5,291.54	
Received from labor.....	1,067.76	
Received from licenses.....	32.00	
Received from voucher canceled.....	9 80	
	<hr/>	
	\$653,131.20	
Balance in hands of City Treasurer,		
April 1st, 1867	\$31,251.68	
Amount due City Treasurer, April 1, 1868,	36,418.40	
	<hr/>	
	\$67,670.08	\$720,801.28

EXPENDITURES.

SEWERS—SOUTH DIVISION.

Services of engineers.....	\$2,213.31
Labor	6,706.36
Pipe sewer, built by contractor.....	1,994.85
Cement.....	1,212.00
Brick	733.22
Raising and lowering pipe and plumbing,	317.65
Amount credited in error belonging to	
Water Fund.....	261.55
Lumber... ..	192.14
Horse-keeping	112.13
Car fares.....	94.47
Repairing wagons and tools.....	51.95
Tools.....	21.68

Amounts carried forward,.....\$ 13,911.31

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward.....	\$13,911.31		
Rent of stable lot.....	20.84		
Rod, target and tape lines.....	18.61		
Pails.....	15.75		
Oil.....	3.00		
Repairing instruments.....	2.25		
Twine.....	2.18		
	<hr/>	\$13,973.94	

ADD—

Expense of sewer on Indiana avenue....	\$5,052.28
“ “ Twenty-sixth street,	4,096.76
“ “ Twenty-first street..	1,919.91
“ “ Wabash avenue....	5,494.66
“ “ Prairie avenue....	11,010.06
“ “ Archer Road.....	7,166.17
“ “ Twenty-third street,	330.25
“ “ Michigan avenue...	5,592.17
“ “ Calumet avenue....	16,706.27
“ “ Burnside street....	1,886.54
“ “ Kankakee avenue..	5,460.62
“ “ Nineteenth street..	4,958.94
“ “ South Clark street..	2,169.10
“ “ Eighteenth street...	732.88

Proportion of discount on bonds sold.... 4,334.70

Covers used..... 812.25

Pipes used for catch basins..... 1,113.30

“ “ sewers 1,279.20

“ “ temporary drain at Tunnel, 327.60

Depreciation in tools..... 53.30

\$80,495.96

DEDUCT—

Labor for M. S. & N. I. R. R....\$261.55

Brick on hand April 1st, 1868...1,447.60 1,709 15

\$78,786.81

\$92,760.75

SEWERS—WEST DIVISION.

Services of Engineers	\$ 1,890.90
Labor.....	20,882.45
Brick	3,391.79
Cement	3,171.16
Pipe sewers by contractors.....	4,268.07
Filling Desplaines St. (to be refunded)..	2,646.43
Lumber.....	217.38

Amounts carried forward. \$36,468.18

\$13,973.94

\$92,760.75

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$36,468.18	\$13,073.94	\$92,760.75
Filling Fourth St. (to be refunded).....	193.50		
Filling W. 12th St. " ".....	150.29		
Repairing gas pipe.....	187.75		
Horse keeping.	112.15		
Raising and lowering water pipe and plumbing.....	67.25		
Car fares.....	66.60		
Repairing wagons and tools.....	51.96		
Sand.....	40.00		
Advertising.....	36.94		
Water used for puddling.....	36.00		
Pails.....	21.85		
Rod, target and tape lines.....	18.63		
Tools.....	17.09		
Rent of stable lot.....	10.42		
Repairing surveying instruments.....	8.50		
Twine.....	2.19	37,489.30	

ADD—

Expense of sewer on Van Buren street..\$	9,044.28
" " Chicago avenue....	17,428.42
" " Green street.....	1,691.28
" " Morgan street.....	2,701.42
" " Reuben street.....	1,799.09
" " Peoria street.....	3,080.20
" " Leavitt street.....	1,651.35
" " Milwaukee ave.....	2,573.11
" " Taylor street.....	25,800.72
" " Maxwell street.....	8,801.83
" " Mitchell street.....	60.00
" " Adams street.....	2,735.27
" " W. Madison street.....	38,695.58
" " Sheldon street.....	1,388.10
" " Desplaines street....	1,409.00
" " Halsted street.....	12,372.57
" " Sixteenth street....	2,408.35
" " Twelfth street.....	8,374.94
" " Lake street.....	6,482.44
" " Union street.....	2,030.45
" " Clinton street.....	7,417.35
" " Jefferson street.....	7,802.15
" " W. Indiana st.....	9,381.26
" " Paulina street.....	9.25

Amounts carried forward,.....	\$176,138.41	\$51,463.24	\$92,760.75
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		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$176,138.41	\$51,463.24	\$92,760.75
Expense of sewer on Laflin street.....	1,838.00		
“ “ Blue Island avenue.....	6,159.17		
“ “ West 18th street....	985.31		
Proportion of discount on bonds sold....	11,173.91		
Covers used	2,058.00		
Pipe used for catch basins	2,744.00		
“ “ sewers	5,092.80		
Depreciation in tools.....	53.30		
	<u>\$206,242.90</u>		

DEDUCT—

Brick on hand.....	\$3,743.40		
Damages to gas pipe.....	20.00		
Cement.....	4.50	3,767.90	
		<u>\$202,475.00</u>	

239,964 30

SEWERS—NORTH DIVISION.

Services of Engineers.....	\$ 1,740.79		
Labor	12,724.52		
Brick	1,152.52		
Cement	1,211.37		
Bremer street pipe sewer.....	337.50		
Lumber	179.52		
Raising and lowering pipe and plumbing,	100.40		
Horse keeping.....	112.12		
Tools	21.68		
Car fares	62.08		
Repairing wagons and tools.....	51.94		
Water used for puddling	36.00		
Rod, target and tape lines.....	18.61		
Pails	15.75		
Twine	2.18		
Oil.....	1.75		
		<u>17,768.73</u>	

ADD—

Expense of sewer on Division street...\$	1,410.45		
“ “ North Clark st...	23,678.57		
“ “ Oak street	2,777.09		
“ “ Chestnut street...	315.56		
“ “ North avenue....	16,785.54		
“ “ Whiting street ...	1,223.93		
“ “ Schiller street....	3,112.37		
“ “ Goethe street.....	1,353.38		
“ “ Elm street.....	1,894.35		
“ “ Maple street.....	2,452.25		

Amounts carried forward,.....	\$55,003.49	\$69,231.97	\$332,725.05
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		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward.....	\$55,003.49	\$69,231.97	\$332,725.05
Expense of sewer on Hinsdale street...	1,565.38		
“ “ Burton Place.....	1,634.87		
Proportion of discount on bonds sold....	3,901.23		
Covers used.....	741.75		
Pipes used for catch basins.....	729.60		
“ “ sewers.....	3,940.86		
Depreciation in tools.....	53.30		
	<u>\$67,570.48</u>		
DEDUCT			
Brick on hand, April 1, '68....	\$1,309.00		
Labor at White st. chapel....	24.75	1,333.75	
		<u>\$66,236.73</u>	84,005.46
CLEANSING SEWERS—SOUTH DIVISION.			
Labor.....	\$ 10,329.08		
Water used for flushing.....	311.32		
Repairing wagons and tools	105.60		
Candles and oil.....	19.33		
Rubber goods	10.50		
Car fares.....	8.50		
Couplings and fittings.....	6.92		
Pails.....	6.92		
Hoes.....	6.50		
Salt.....	3.00		
	<u>10,807.67</u>		
ADD—			
Depreciation in tools	\$ 53.30		
DEDUCT—			
Labor for Duffy & McNichols..	\$148.23		
Labor for U. H. Crosby	20.00	168.23	
		<u>\$114.93</u>	10,692.74
CLEANSING SEWERS—WEST DIVISION.			
Labor.....	\$ 9,296.65		
Water used for flushing.....	311.32		
Repairing wagons and tools.....	105.64		
Oil and candles.....	16.49		
Rubber goods.....	10.51		
Car fares	8.50		
Couplings and fittings	6.93		
Pails.....	6.92		
Rope	5.75		
	<u>9,768.71</u>		
ADD—			
Depreciation in tools	53.30		9,822.01
Amounts carried forward,		<u>\$89,808.35</u>	<u>\$437,245.26</u>

	<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,	\$89,808.35	\$427,245.26
CLEANING SEWERS—NORTH DIVISION.		
Labor	\$ 5,516.96	
Water used for flushing.....	311.31	
Repairing wagons and tools.....	105.59	
Rubber goods.....	10.49	
Car fares	8.50	
Couplings and fittings	6.92	
Pails	6.91	
Salt	3.00	
Oil	3.08	
	<hr/>	
	5,972.76	
ADD—		
Depreciation in tools	\$53.30	6,026.06
REPAIRS OF SEWERS—SOUTH DIVISION.		
Labor.....	\$ 2,139.62	
Inspecting	15.00	
Cement.....	195.05	
Filling to protect South LaSalle street sewer at dock	70.00	
Clay.....	10.00	
Rubber goods.....	8.00	
Repairing tools.....	15.90	
	<hr/>	
	2,453.57	2,453.57
REPAIRS OF SEWERS—WEST DIVISION.		
Labor... ..	\$ 2,168.51	
Cement.....	281.67	
Repairing tools.....	15.90	
	<hr/>	
	2,466.08	2,466.08
REPAIRS OF SEWERS—NORTH DIVISION.		
Labor	\$ 3,802.95	
Inspecting	15.00	
Cement.....	747.93	
Filling to protect North LaSalle street sewer at dock	70.00	
Clay	10.00	
Repairing tools.....	15.89	
	<hr/>	
	4,661.77	4,661.77
SEWERAGE BRICK.		
Brick paid for and used by other depart- ments—whole amount refunded	3,170.50	
HOUSE DRAINS.		
Draughtsman	1,200.00	
Permit clerk.....	940.00	
Inspectors	2,876.25	
Labor setting junctions.....	121.33	
Advertising.....	439.31	
	<hr/>	
Amounts carried forward,.....	\$5,576.89	\$108,533.03
		<hr/>
		\$452,852.74

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$ 5,576.89	\$108,533.03	\$452,852.74
Car fares	67.10		
Tax erroneously paid refunded	27.50		
Printing blanks	21.50		
Mounting and binding maps.....	30.00		
Repairing gas pipe	10.00		
Drawing materials	5.50		
Miscellaneous	6.40		
	<hr/>	5,744.89	
ADD—			
Pipe junctions set.....	\$ 5,445.92		
DEDUCT—			
Received for permits issued.....	16,550.70		
	<hr/>		
	\$11,104.78		
SEWERAGE PIPE.			
Amount paid for pipe.....	\$ 19,620.00		
Labor	387.25		
Advertising for proposals	79.43		
	<hr/>	20,086.68	
SEWERAGE STOCK.			
Lumber for sheeting.....	\$ 469.77		
Two dirt carts.....	300.00		
Water box.....	160.60		
Tools.....	135.55		
Wheelbarrows	30.00		
	<hr/>	1,095.92	
MAN HOLE AND CATCH BASIN SEWERS.			
Labor	\$ 3,468.35		
Lumber	4,100.84		
Nails and spikes.....	817.75		
Tar.....	175.00		
Twine and Oakum	22.38		
Bolts and screws.....	8.12		
	<hr/>	8,592.44	
DEDUCT—			
Covers used for sewers and repairs....	\$ 6,108.50		
Covers sold	223.50		
	<hr/>		
	\$6,332.00		
ADD—			
Depreciation in tools	53.32		
	<hr/>		
	\$6,278.68		2,313.76
OFFICE EXPENSES AND SALARIES.			
Salaries of Commissioners.....	\$ 2,670.00		
Salary of Secretary	933.32		
“ City Engineer.....	1,500.00		
	<hr/>		
Amounts carried forward,	\$5,103.32	\$144,052.96	\$455,166.50

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....\$	5,103.32	\$144,052.96	\$455,166.50
Salary of Book keeper and assistant.....	1,066.64		
“ Sup’t and ass’t engineer.....	1,548.32		
“ Clerks.....	2,802.51		
“ Draughtsmen.....	700.00		
“ Messenger, janitor and watchman.....	834.00		
Blank books and stationery.....	421.06		
Printing.....	142.17		
Engraving bonds.....	182.25		
Advertising... ..	175.87		
Office rent.....	2,124.53		
Safe.....	70.00		
Revenue and postage stamps.....	80.33		
Books and papers... ..	41.42		
Furniture.....	384.24		
Fuel.....	258.23		
Repairs.....	125.41		
Expense of sale of bonds.....	124.94		
Express charges and telegrams on bonds.....	155.29		
Awnings.....	71.66		
Locks, keys and hardware.....	50.84		
Painting, graining and varnishing.....	74.16		
Carpet, matting, paper and curtains.....	70.44		
Gas fixtures and fitting.....	75.08		
Cleaning offices and towels.....	61.84		
Gas.....	45.01		
Coupon book.....	35.00		
Ice.....	22.33		
Rent of stable lot.....	10.42		
Storing and repairing stoves.....	29.85		
Repairing surveying instruments.....	12.75		
Pigeon hole boxes.....	19.76		
Sprinkling front of office.....	15.00		
Weather strips.....	10.47		
Plumbing.....	8.72		
Miscellaneous.....	118.03		
	<hr/>	17,071.89	
DEDUCT—			
Received for licenses.....	\$32.00		17,039.89
SEWERAGE INTEREST.			
Interest on sewerage loan bonds, July 1, 1867, and January 1, 1868.....	\$105,110.00		
Interest paid in Chicago.....	579.44		
Interest on temporary loans.....	2,002.69		
Commissions paid Am. Exc. Nat’l Bank..	262.78		
	<hr/>	107,954.91	107,954.91
Amounts carried forward,.....		\$269,079.76	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$269,079.76	\$580,161.30
Division st. sewer, 410 feet 2 feet sewer—			
T. J. Clark, constructing sewer.....\$	1,025.00		
“ extras on same	29.25		
Inspecting	67.20		
Labor	4.50		
Brick	266.50		
	<hr/>	1,392.45	
ADD—			
Covers used.....\$18.00			
North Clark st. sewer, 2,632 ft. 5 ft. sewer—			
Haines & Hallinin, constructing 1,252			
feet sewer.....\$	8,138.00		
Haines & Hallinin, extras.....	298.35		
McCabe, Ryan & Co., constructing 1,380			
feet sewer.....	6,141.00		
McCabe, Ryan & Co., extras	246.00		
Brick.....	7,906.13		
Inspecting	376.00		
Labor	319.38		
Plumbing.....	141.66		
	<hr/>	23,566.52	
ADD—			
Covers used	\$74.25		
Pipe used	37.80		
	<hr/>	112.05	
Indiana ave. sewer, 1,331 ft. 2½ ft. sewer—			
Duffy & McNicols, constructing sewer..	3,933.00		
Duffy & McNichols, extras.....	200.50		
Inspecting	110.00		
Labor	64.75		
Brick	610.53		
	<hr/>	4,978.78	
ADD—			
Covers used.....\$60.00			
Pipe used	13.50	\$73.50	
Mitchell street sewer			60.00
Van Buren street sewer, 1,330¼ ft. 4½ ft.			
sewer—Mulany & Duffy, constructing			
sewer	\$ 4,615.97		
Mulany & Duffy, extras.....	53.50		
Brick.....	3,977.44		
Inspecting	171.00		
Labor	166.37		
	<hr/>	8,984.28	
Amounts carried forward,.....		\$308,061.79	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$308,061.79	580,161.30
ADD—			
Covers used	\$33.00		
Pipe used	27.00		
	<hr/>	60.00	
Oak st. sewer, 1,478 feet 2 feet sewer—			
Haines & Hallinin, constructing 665 ft.			
sewer	\$ 1,596.00		
Haines & Hallinin, extras	46.12		
McCabe, Ryan & Co., constructing 813 ft.			
sewer	586.72		
McCabe, Ryan & Co., extras	15.00		
Inspecting	50.00		
Brick	432.25		
	<hr/>	2,726.09	
ADD—			
Covers used	\$24.00		
Pipes used	27.00		
	<hr/>	51.00	
Chestnut st. sewer, 343 feet 2 feet sewer—			
McCabe, Ryan & Co., constructing sewer		315.56	
Twenty-sixth street sewer, 421 feet 3 feet			
sewer—T. H. Dufly, constructing sewer.	\$ 2,273.40		
Brick	1,667.23		
Inspecting	107.25		
Labor	21.88		
	<hr/>	4,069.76	
ADD—			
Covers used	\$18.00		
Pipe used	9.00	\$27.00	
Chicago avenue sewer, 2,662 ft. 4 ft. sewer—			
Woodruff & Raffin, constructing sewer.	\$ 9,982.50		
Brick	6,748.17		
Inspecting	206.00		
Labor	332.00		
Cement	18.00		
	<hr/>	17,286.67	
ADD—			
Covers used	\$74.25		
Pipe used	67.50	\$141.75	
Green st. sewer, 469 ft. 2 ft. sewer—Wood-			
ruff & Raffin, constructing sewer....	1,228.78		
do extras	31.50		
Brick	357.50		
Inspecting	36.00		
	<hr/>	1,653.78	
Amounts carried forward,.....		\$334,113.65	\$580,161.30

		Cash Payment.	True Cost.
Amounts brought forward,.....		\$334,113.65	\$580,161.30
ADD—			
Covers used.....	\$24.00		
Pipe used.....	13.50		
	—————	37.50	
Morgan street sewer, 435 feet 2 ft. sewer—			
Mulany & Duffy, balance for work in '66.	\$ 1,224.50		
do extras.....	6.47		
Woodruff & Raffin, constructing 435 ft....	1,139.70		
Brick	282.75		
Inspecting	30.00		
	—————	2,683.42	
ADD—			
Covers used.....	18.00		
Twenty-first street sewer, 872½ feet 2 feet sewer—M. Mulany, constructing sewer.\$	1,134.25		
Brick.....	597.12		
Inspecting.....	54.00		
Plumbing.....	32.54		
	—————	1,817.91	
ADD—			
Covers used.....	\$48.00		
Pipe used.....	54.00		
	—————	102.00	
Reuben street sewer, 454 feet 2 ft. sewer—			
Mulany & Duffy, balance on work done in 1866	\$ 337.50		
do extras.....	56		
Woodruff & Raffin constructing sewers. .	1,021.50		
do extras.....	25.31		
Brick	295.10		
Inspecting	40.00		
Labor	52.12		
	—————	1,772.09	
ADD—			
Covers used.....	\$18.00		
Pipe used.....	9.00		
	—————	27.00	
Peoria street sewer, 938 feet 2 feet sewer—			
Woodruff & Raffin, constructing sewer.\$	2,345.00		
Brick.....	609.70		
Inspecting.....	66.00		
Labor.....	13.50		
	—————	3,034.20	
Amounts carried forward,.....		\$343,421.27	\$580,161.30

		Cash Payment.	True Cost.
Amount brought forward,.....		\$343,421.27	\$580,161.30
ADD—			
Covers used.....	\$36.00		
Pipe used	10.00	46.00	
Wabash av. sewer, 671 ft. 2½ ft. and 640 ft.			
2 ft. sewer—John Clark, constructing 2½			
feet sewer	\$	2,281.40	
John Clark, constructing 2 feet sewer....		2,048.00	
do extras.....		30.38	
Brick for 2½ feet sewer.....		533.38	
“ “ 2 “ “		416.00	
Inspecting		100.00	
Labor		13.50	
			5,422.66
ADD—			
Covers used.....	\$54.00		
Pipe used	18.00	72.00	
North av. sewer, 1,317 feet 4 ft. and 1,065			
ft. 3 ft. sewer—T. J. Clark, constructing			
4 ft. sewer	\$	5,992.35	
T. J. Clark, constructing 3 feet sewer ...		4,526.25	
do extra labor and materials ...		211.40	
Brick for 4 feet sewer		3,338.59	
“ “ 3 “ “		2,076.75	
Inspecting		230.00	
Labor		259.00	
			16,634.34
ADD—			
Covers used	\$81.00		
Pipe used.....	70.20	151.20	
Prairie avenue sewer, 2,018 ft. 2½ feet and			
648 2-10 feet 2 feet sewer—Duffy & Mc-			
Nichols, balance on work of 1866.....	\$	691.65	
Duffy & McNichols, constructing 2 ft. sewer		1,296.40	
do extras.....		70.00	
John Clark, 680 feet 2½ feet sewer		2,278.00	
do extras.....		90.56	
Thos. H. Duffy, constructing 1,338 feet 2½			
sewer		4,014.00	
Thos. H. Duffy, extras		150.75	
Brick for 2½ feet sewer.....		1,571.00	
“ “ 2 “ “		421.20	
Amounts carried forward,.....	\$10,583.56	\$365,478.27	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$ 10,583.56	\$365,478.27	\$580,161.30
Inspecting.....	207.50		
Labor	73.50		
	<hr/>	10,864.56	
ADD—			
Covers used.....	\$114.00		
Pipe used	31.50	145.50	
	<hr/>		
Milwaukee avenue sewer, 384 feet 4½ feet sewer—Woodruff & Raffin, constructing sewer.....	\$ 1,344.00		
Brick.....	1,148.16		
Inspecting	40.00		
Labor.....	30.00	2,562.16	
	<hr/>		
ADD—			
Covers used.....	\$8.25		
Pipe used	2.70	\$10.95	
	<hr/>		
Taylor st. sewer, 1,175 feet 4½ ft. sewer— Langan & McHugh, balance on contract of 1866	\$ 5,096.62		
Langan & McHugh, extras.....	140.11		
Woodruff & Raffin, constructing 1,175 feet 4½ feet.....	4,406.25		
Woodruff & Raffin, extras	5.62		
“ on account of 2,152½ feet 4½ feet.....	5,655.00		
Brick.....	9,949.22		
Inspecting	514.50		
Labor	654.02		
Plumbing.....	123.33	26,544.67	
	<hr/>		
ADD—			
Covers used.....	\$123.75		
Pipe used	132.30	\$256.05	
	<hr/>		
Maxwell st. sewer, 1,294 ft. 5 ft. sewer— Woodruff & Raffin, constructing sewer.\$	4,205.50		
Woodruff & Raffin, extras.....	11.25		
Brick.....	4,373.78		
Inspecting	38.00		
Labor	110.75	8,739.28	
	<hr/>		
Amounts carried forward,.....		\$414,188.94	\$580,161.30

	<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$414,188.94	\$580,161.30
ADD—		
Covers used.....	\$24.75	
Pipe used.....	34.80	\$59.55
Whiting street sewer, 438 ft. 2 ft. sewer—		
T. J. Clark, constructing sewer.....	\$ 876.00	
T. J. Clark, extras.....	2.25	
Brick.....	284.70	
Inspecting.....	16.00	
Plumbing.....	4.48	1,183.43
ADD—		
Covers used.....	\$18.00	
Pipe used.....	22.50	\$40.50
Archer Road sewer, 1,031 2-10 ft. 4 ft. sewer—M. Mulany, constructing sewer.	\$ 4,124.80	
M. Mulany, extras.....	142.50	
Brick.....	2,613.58	
Inspecting ..	64.00	
Labor ..	115.38	
Plumbing.....	42.41	7,104.67
ADD—		
Covers used.....	\$41.25	
Pipe used	20.25	61.50
Twenty-third st. sewer, 82 ft. 2 ft. sewer—		
John Clark, constructing sewer.....	\$ 274.70	
Brick.....	53.30	328.00
ADD—		
Pipe used	\$2.25	
Michigan ave. sewer, 1,347 ft. 2½ ft. sewer—		
T. H. Duffy, constructing sewer.....	\$ 4,175.70	
“ extras.....	165.81	
Brick.,.....	1,050.66	
Inspecting ..	81.00	
Labor	41.00	5,514.17
ADD—		
Covers used.....	\$60.00	
Pipe used	18.00	78.00
Amounts carried forward,	\$428,319.21	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward.....		\$428,319.21	\$580,161.30
Calumet Ave. sewer, 2,706 2-10 feet 2½ feet and 1,295 7-10 ft. 2 ft. sewer—John Clark, constructing 2 ft. sewer.....	\$ 4,146.24		
John Clark, constructing 687 7-10 ft. 2½ ft. sewer	2,235.02		
John Clark, extras	149.62		
T. H. Duffy, constructing 1,353 feet 2½ ft. sewer	4,059.00		
T. H. Duffy, extras	149.13		
Duffy & McNichols, constructing 665 5-10 ft. 2½ ft. sewer....	1,996.50		
Duffy & McNichols, extras.....	234.25		
Brick for 2½ feet sewer.....	2,110.68		
Brick for 2 feet sewer.....	842.40		
Inspecting	423.75		
Labor	148.43		
		16,485.02	
ADD—			
Covers used... ..	\$174.00		
Pipe used	47.25	221.25	
Leavitt street sewer, 650 feet 2 ft. sewer— Mulany & Duffy, constructing sewer...\$	1,105.00		
“ extras	11.25		
Brick.....	422.50		
Inspecting	21.00		
Labor	34.60		
		1,594.35	
ADD—			
Covers used.....	\$30.00		
Pipe used	27.00	57.00	
Burnside street sewer, 916½ ft. 2 ft. sewer— M. Mulany, constructing sewer.....\$	1,145.62		
“ extras.....	13.75		
Brick	595.72		
Plumbing.....	56.45		
		1,811.54	
ADD—			
Covers used.....	\$48.00		
Pipe used	27.00	75.00	
Kankakee avenue sewer, 1,335 feet 2½ ft. and 18 feet 2 feet sewer—T. H. Duffy, constructing 2½ feet sewer.....\$	4,005.00		
Amounts carried forward.....	\$4,005.00	\$448,210.12	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$ 4,005.00	\$448,210.12	\$580,161.30
T. H. Duffy, constructing 2 feet sewer....	54.00		
“ extras.....	149.62		
Brick for 2½ feet sewer.....	1,040.30		
“ “ 2 “ “	11.70		
Inspecting	81.00		
Labor	41.00		
	<hr/>	5,382.62	
ADD—			
Covers used....	\$60.00		
Pipe used	18.00	78.00	
	<hr/>	<hr/>	
Nineteenth st. sewer, 255 feet 3 ft. sewer— and 1,531 ft. 2½ feet sewer— M. Mulany, constructing 3 feet sewer.....	\$ 765.00		
M. Mulany, constructing 2½ feet sewer...	2,143.40		
Brick for 3 feet sewer.....	497.25		
“ “ 2½ “ “	1,194.18		
Inspecting	54.00		
Labor	82.00		
Plumbing.....	49.86		
	<hr/>	4,785.69	
ADD—			
Covers used	\$90.00		
Pipe used	83.25	173.25	
	<hr/>	<hr/>	
Adams street sewer, 365 feet 4½ ft. sewer— Woodruff & Raffin, constructing sewer. \$	1,551.25		
“ extras	7.87		
Brick.....	1,091.35		
Labor	65.75		
	<hr/>	2,716.22	
ADD—			
Covers used.....	\$ 8.25		
Pipe used	10.80	19.05	
	<hr/>	<hr/>	
Sheldon street sewer, 499 feet 2 ft. sewer— Woodruff & Raffin, constructing sewer.. \$	998.00		
“ extras.....	2.25		
Brick.....	324.35		
Inspecting	38.00		
	<hr/>	1,362.60	
ADD—			
Covers used.....	\$12.00		
Pipe used	13.50	25.50	
	<hr/>	<hr/>	
Amounts carried forward,.....		\$462,457.25	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$462,457.25	\$580,161.30
West Madison street sewer, 1,991 ft. 4½ ft. and 2,661½ feet 4 ft. sewer—Woodruff & Raffin, constructing 4½ feet sewer.....	\$ 12,324.29		
Woodruff & Raffin, extras on the same....	131.06		
“ constructing 4 ft. sewer	12,642.12		
“ extras on “ “	65.25		
Brick for 4½ feet sewer.....	5,953.09		
“ “ 4 “ “	6,746.90		
Inspecting.....	240.50		
Labor	339.50		
Plumbing.....	29.22		
		38,471.93	
ADD—			
Covers used.....	\$123.75		
Pipe used.....	99.90	223.65	
Desplaines st. sewer, 785 feet 2 ft. sewer— Woodruff & Raffin, constructing sewer.\$	785.00		
Brick.....	510.25		
Inspecting.....	12.00		
Labor	43.25		
		1,350.50	
Sixteenth st. sewer, 523 feet 3 feet sewer, Woodruff & Raffin, constructing sewer.\$	1,307.50		
“ extras.....	6.75		
Brick.....	1,019.85		
Labor	36.75		
		2,370.85	
ADD—			
Covers used.....	\$24.00		
Pipe used	13.50	37.50	
Halsted st. sewer, 5,398 ft. 2 ft. sewer— Woodruff & Raffin, constructing sewer..\$	8,178.25		
“ extras	4.50		
Brick.....	3,508.70		
Inspecting	210.00		
Labor	84.87		
		11,986.32	
ADD—			
Covers used	\$258.00		
Pipe used	128.25	386.25	
Twelfth st. sewer, 1,348 ft. 4½ ft. sewer— Woodruff & Raffin, constructing sewer...\$	4,212.50		
Amounts carried forward,.....	\$4,212.50	\$516,636.85	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost</i>
Amounts brought forward,.....	\$4,212.50	\$516,636.85	\$580,161.30
Brick.....	4,030.28		
Plumbing.....	47.59		
Labor.....	21.87		
	<hr/>	8,312.24	
ADD—			
Covers used:.....	\$33.00		
Pipe used.....	29.70	62.70	
	<hr/>		
Schiller st. sewer, 842 ft. 2 ft. sewer—T. J.			
Clark, constructing 404 ft. sewer.....	\$ 1,010 00		
T. J. Clark, extras.....	298.75		
McCabe, Ryan & Co., constructing 438 feet sewer.....	985.50		
McCabe, Ryan & Co., extras.....	39.37		
Brick.....	579.15		
Inspecting.....	123.60		
Labor.....	4.50		
	<hr/>	3,040.87	
ADD—			
Covers used.....	\$36.00		
Pipe used.....	35.50	71.50	
	<hr/>		
Goethe st. sewer, 430 feet 2 feet sewer—			
McCabe, Ryan & Co., constructing sewer.....	\$ 967.50		
McCabe, Ryan & Co., extras.....	39.38		
Brick.....	273.00		
Inspecting.....	24.00		
Labor.....	4.50		
Plumbing.....	9.00		
	<hr/>	1,317.38	
ADD—			
Covers used.....	\$18.00		
Pipe used.....	18.00	36.00	
	<hr/>		
Elm st. sewer, 629 ft. 2 ft. sewer—Haines & Hallinin, constructing sewer.....	\$ 1,397.25		
Haines & Hallinan, extras.....	37.25		
Brick.....	408.85		
Labor.....	9.00		
	<hr/>	1,852.35	
ADD—			
Covers used.....	\$24.00		
Pipe used.....	18.00	42.00	
	<hr/>		
Amounts carried forward,		<hr/>	<hr/>
		\$531,159.69	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$531,159.69	\$580,161.30
Maple st. sewer, 755 ft. 2 ft. sewer—Haines & Hallinin, constructing sewer.....\$	1,758.75		
Haines & Hallinan, extras.....	78.50		
Brick.....	492.75		
Labor	65.25		
	<hr/>	2,395.25	
ADD—			
Covers used.....\$30.00			
Pipe used	27.00	57.00	
	<hr/>		
West Lake st. sewer, 666 ft. 4 ft. sewer— Duffy & Brophy, constructing sewer...\$	3,982.68		
“ extras.....	18.00		
Brick.....	1,688.31		
Labor	703.75		
Inspecting	57.00		
	<hr/>	6,449.74	
ADD—			
Covers used.....\$16.50			
Pipe used	16.20	32.70	
	<hr/>		
Union street sewer, 873 ft. 2 ft. sewer— Woodruff & Raffin, constructing sewer.\$	1,309.50		
“ extras	43.00		
Brick.....	567.45		
Inspecting	34.00		
Labor	13.50		
	<hr/>	1,967.45	
ADD—			
Covers used.....\$36.00			
Pipe used	27.00	63.00	
	<hr/>		
Hinsdale st. sewer, 509 ft. 2 ft. sewer—T. J. Clark, constructing sewer.....\$	1,145.25		
Brick.....	330.85		
Labor.....	50.00		
Plumbing.....	6.28		
	<hr/>	1,532.38	
ADD—			
Covers used	\$24.00		
Pipe used	9.00	33.00	
	<hr/>		
Clinton street sewer, 2,765 ft. 2 ft. sewer— Woodruff & Raffin, constructing sewer.\$	4,838.75		
“ extras.....	172.00		
Brick.....	1,797.25		
	<hr/>		
Amounts carried forward,	\$6,808.00	\$543,504.51	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward	\$6,808.00	\$543.504.51	\$580,161.30
Repairing gas pipe.....	283.05		
Inspecting	93.00		
Labor	49.50		
Plumbing.....	18.80		
	<hr/>	7,252.35	
ADD—			
Covers used.....	\$102.00		
Pipe used	63.00	165.00	
	<hr/>		
Jefferson st. sewer, 2,766 feet 2 ft. sewer—			
Woodruff & Raffin, constructing sewer. \$	5,532.00		
“ extras.....	20.25		
Brick.....	1,797.90		
Inspecting	224.00		
Labor	49.50		
	<hr/>	7,623.65	
ADD—			
Covers used.....	\$102.00		
Pipe used	76.50	178.50	
	<hr/>		
West Indiana street sewer, 1,329 feet 4 feet			
sewer—W. Woodruff, balance due on			
contract of 1866.....	\$ 290.00		
Woodruff & Raffin, constructing sewer ...	5,316.00		
“ extras	4.50		
Brick	3,379.01		
Inspecting.....	167.00		
Labor.....	161.75		
	<hr/>	9,321.26	
ADD—			
Covers used.....	\$33.00		
Pipe used	27.00	60.00	
	<hr/>		
South Clark st. sewer, 919 ft. 2 ft. sewer—			
M. Mulany, constructing sewer.....	\$ 1,378.50		
“ extras.....	18.25		
Brick	597.35		
Inspecting.....	100.00		
	<hr/>	2,094.10	
ADD—			
Covers used.....	\$48.00		
Pipe used.....	27.00	75.00	
	<hr/>		
Paulina street sewer—			
Labor.....		9.25	
		<hr/>	
Amounts carried forward,		\$569,805.12	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward		\$569,805.12	\$580,161.30
Lafin steet sewer, 490 feet 2 feet sewer—			
C. W. Fuller, constructing sewer.....\$	1,479.00		
Brick	318.50		
	<hr/>	1,797.50	
ADD—			
Covers used.....\$18.00			
Pipe used.....	22.50	40.50	
	<hr/>		
Burton Place Sewer, 407 feet 2 ft. sewer—			
P. D. Betticher, constructing sewer...\$	1,133.52		
Brick.....	264.55		
Cement	101.30		
Inspecting.....	94.20		
Repairing gas pipe	19.60		
	<hr/>	1,613.17	
ADD—			
Covers used :	\$18.00		
Pipe used.....	13.50		
	<hr/>	31.50	
DEDUCT—			
Refunded for repairing gas pipe	9.80	21.70	
	<hr/>		
Blue Island av. sewer, 2,272 ft. 2 ft. sewer—			
Woodruff & Raffin, constructing sewer.\$	3,976.00		
“ extras.....	167.62		
Brick.....	1,476.80		
Inspecting	337.00		
Labor	57.00		
	<hr/>	6,014.42	
ADD—			
Covers used.....\$102.00			
Pipe used.....	42.75	144.75	
	<hr/>		
West Eighteenth street sewer—			
Labor		968.81	
ADD—			
Covers used.....\$16.50			
Eighteenth street sewer—			
Labor		726.88	
ADD—			
Covers used.....\$6.00			
Filling North Market st.—Stewart, Lud-			
lam & Co., filling.....\$	234.00		
Kostens & Deitman, filling.....	284.80		
Labor	94.92		
	<hr/>		
Amounts carried forward	\$613.72	\$580,925.90	\$580,161.30

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward	\$613.72	\$580,925.90	\$580,151.30
Inspecting	42.00		
Advertising	15.50		
		671.22	
Filling Harrison, Polk and Taylor streets— Stewart, Ludlam & Co., filling	252.80		
Labor by city.....	60.00		
		312.80	312.80
Michigan ave. drains—Woodruff & Raffin, constructing drains.....	\$ 3,176.74		
Repairing gas pipe.....	67.76		
		3,244.50	3,244.50
Chicago avenue drains—B. Langan, con- structing drains.....		350.60	350.60
Milwaukee avenue drains—John Duffy, constructing drains....		1,494.74	1,494.74
Market street drains—W. M. Dee, con- structing drains.....		972.53	
DEDUCT—			
Amount received from Chicago Gas Co. \$	145.92		826.61
Halsted street drains—John Duffy, con- structing drains	376.00		
E. McGrath, constructing drains.....	196.00		
		572.00	
DEDUCT—			
Amount received from J. F. Smith.....	\$38.50		533.50
North Clark street drains—C. W. Fuller, constructing drain.....		982.40	
DEDUCT—			
Amount received from S. Witkowsky..	\$63.50		918.90
Clark street drains—W. M. Dee, con- structing drains		1,029.07	1,029.07
Indiana ave. drains—Chas. Birkenshaw, constructing drains....	\$886.40		
Bryan O'Neil, constructing drains.....	790.40		
		1,676.80	1,676.80
Kinzie street drains—John McHugh, con- structing drains		609.00	609.00
Wabash ave. drains—James McKenney, constructing drains.....		105.00	105.00
MISCELLANEOUS.			
Temporary loans paid.....		101,000.00	101,000.00
Paid to Sewerage Sinking Fund for its proportion of tax of 1866.....		23,301.90	23,301.90
Amount carried forward.....		\$717,248.46	\$715,564.72

	<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward.....	\$717,248.46	\$715,564.72
Paid to River Improvement Fund for its proportion of tax of 1866....	3,883.65	3,883.65
Labor for Woodruff & Raffin, contractors.	72.00	72.00
	<u>\$721,204.11</u>	<u>\$719,520.37</u>
Deduct from "cash payment" column.		
Duffy & McNichols, cleansing sewer		\$148.23
Duffy & McNichols, paid in 1866.	67.50	
Haines & Hallinin, sheeting....	105.80	
McCabe, Ryan & Co., "	81.30	
	<u>\$402.83</u>	<u>402.83</u>
Total cash expenditures....	<u>\$720,801.28</u>	<u>\$719,520.37</u>

SEWERAGE SINKING FUND.

RECEIPTS.

Proportion of Sewerage Tax of 1866.....	\$23,301.90	
Balance in hands of City Treasurer, April 1, 1867.....	902.47	\$24,204.37

EXPENDITURES.

Twenty-one bonds purchased and cancelled, Nos. 1,045, to 1,049 inc., 1,163 to 1,168 inc., 1,777 to 1,781 inc., and 1,829 to 1,833, inclusive.....	\$20,089.72	
Balance in hands of City Treasurer, April 1, 1868.....	4,114.65	\$24,204.37

RIVER IMPROVEMENT DEPARTMENT.

Trial Balance, Ledger, Board of Public Works, March 31, 1868.

	Dr.	Cr.
River Improvement Fund (amount due Treasurer)....		\$ 26,508.47
Expenses of Survey previous to adoption of plan.....\$	1,269.23	
W. Kimball, Comptroller, Bond acct.—Bonds unsold..	50,000.00	
American Exchange National Bank—Coupon account..	16,415.00	
Expenses of Illinois and Michigan Canal Survey.....	17,823.92	
River Improvement Salaries	18,750.00	
River Improvement Office Expenses.....	1,490.18	
C. B. Kimball & Co., Contractors.....	24,650.00	
Sanger, Steele & Co., Contractors....	62,292.59	
Fox, Howard & Walker, Contractors—old contract....	98,649.95	
River Improvement Bonds, 7 per cent.....		500,000.00
Discount on River Improvement Bonds	20,827.47	
River Improvement Loan Interest.....	8,336.10	
River Improvement—Miscellaneous Expenses.....	31,445.12	
Fox, Howard & Walker, Contractors—new contract..	44,333.03	
Hosch & Harroon, Contractors.....	1,168.75	
C. E. Boyer, Contractor.....	74,715.00	
Hosch & Van Slyck, Contractors	15,028.00	
S. W. Norton, Contractor	16,269.78	
Lee & Graham, Contractors.....	9,626.25	
J. A. Hendricks & Co., Contractors	17,301.75	
River Improvement Sinking Fund.....		3,883.65
	<u>\$530,392.12</u>	<u>\$530,392.12</u>

RIVER IMPROVEMENT FUND.

STATEMENT of the Cash Receipts by the Board of Public Works
from April 1, 1867. to March 31, 1868. inclusive. and detailed
statement of the cost of the various operations conducted by
the Board during the same time:

RECEIPTS.

Proceeds of 287 River Improvement Bonds sold.....	\$274,503.42	
Proportion of Sewerage Tax of 1866 for Sinking Fund.....	3,883.65	
	<u>\$278,387.07</u>	
Balance on hand April 1, 1867	5,394.10	
Amount due City Treasurer April 1, 1868.....	26,508.47	\$310,289.64
	<u>26,508.47</u>	<u>\$310,289.64</u>

EXPENDITURES.

INTEREST.

		<i>Cash Payment.</i>	<i>True Cost.</i>
Interest on river loan bonds, July 1, 1867, and January 1, 1868.....	\$ 16,415.00		
Commissions paid American Exchange National Bank	41.03		
Interest on advance on bonds	49.20		
	<u> </u>	16,505.23	16,505.23

EXPENSES OF SURVEY.

Salary of engineers	\$ 2,300.00		
Rodmen	1,849.00		
Use of horse... ..	105.00		
Refreshments.....	80.00		
Repairing boat.....	29.50		
Towing boat	27.20		
Estimates	19.00		
Chain	16.00		
Miscellaneous	9.05		
	<u> </u>	4,434.75	4,434.75

SALARIES AND OFFICE EXPENSES.

Salaries of Commissioners	6,000.00		
Rent of office	80.00		
Coal oil, chimnies and wick.....	27.17		
	<u> </u>	6,107.17	6,107.17
Amounts carried forward.....		\$27,047.15	\$27,047.15

Amounts brought forward.....		\$27,047.15	\$27,047.15
MISCELLANEOUS EXPENSES.			
On account of pumping at Bridgeport....	\$ 15,000.00		
Advertising	697.12		
Expense of sale, express charges and telegrams on bonds.....	137.91		
Engraving bonds.....	94.50		
Blank contracts and proposals.....	64.00		
Appraising machinery.....	50.00		
Blank estimates	12.00		
Miscellaneous	13.90		
		16,069.43	16,069.43
CONTRACTS.			
Fox, Howard & Walker, on old contract..	\$ 64,080.50		
" on new " ..	44,333.03		
C. B. Kimball & Co., on contract.....	24,650.00		
Hosch & Harroon, "	1,168.75		
C. E. Boyer, "	74,715.00		
Hosch & Van Slyck, "	15,028.00		
S. W. Norton, "	16,269.78		
Lee & Graham, "	9,626.25		
J. A. Hendricks & Co., "	17,301.75		
		267,173.06	267,173.06
Total expenditures		\$310,289.64	\$310,289.64

OFFICE OF THE BOARD OF PUBLIC WORKS, }
 Nos. 15 and 17 Wells St., Chicago, Nov. 18th, 1868. }

A. W. TINKHAM, Esq., *Secretary*.

The following is a statement of taps on hand March 31st, 1868:

$\frac{1}{2}$ inch Taps,	337	1.13	=	\$ 380.81
$\frac{5}{8}$ " "	285	1.34	=	381.90
$\frac{3}{4}$ " "	25	2.00	=	50.00
1 " "	57	4.00	=	228.00
				<hr/>
				\$1,040.71

Very Respectfully Yours,

O. F. WOODFORD,
Assessor Water Dep't.

OFFICE OF THE BOARD OF PUBLIC WORKS, }
 Nos. 15 and 17 Wells St., Chicago, Nov. 18th, 1868. }

A. W. TINKHAM, Esq., *Secretary*.

The following is a statement of taps inserted from April 1st, 1867, to April 1st, 1868:

$\frac{1}{2}$ inch taps.....	3,231
$\frac{5}{8}$ " "	818
$\frac{3}{4}$ " "	225
1 " "	107
<hr/>	
Total	4,381

Very respectfully yours,

O. F. WOODFORD,
Assessor Water Dep't.

CITY DEPARTMENT.

Trial Balance, Ledger, Board of Public Works, March 31, 1868.

	DR.	CR.
City Appropriation Fund (amount unexpended)	\$178,534.69	
North Division		\$ 1,278.23
South Division	24,765.69	
West Division	18,191.32	
North Division Sidewalks		4,621.31
South Division Sidewalks		3,270.26
West Division Sidewalks		5,624.20
Dredging Goose Island		3,797.77
Lake Park		4,132.62
Dearborn Park		1,343.25
Public Parks		15,376.47
Lake Hospital at Chicago Cemetery		1,958.81
Street Lamps—West Division		55.73
Washington Street Tunnel	245.00	
Public Buildings		13,211.82
Chicago Cemetery		6,312.03
Sidewalk west side of Cemetery		156.29
Lumber Account	630.00	
House Moving and Street Permits		5,479.50
City Office Expense Account	24,641.33	
Street Lamps		2,808.05
Public Hydrants		1,000.00
Dredging Main River and South Branch		7,890.22
Dredging North Branch	409.00	
Chicago Harbor		15,322.14
Intersections of streets		90,730.91
North Market	1,519.48	
Straightening North Clark		50.00
Dredging Bar at mouth of Harbor	47,227.49	
Special Appropriation		70,849.05
North Pier Extension	38,440.53	
City Proportional Expense Account		3,104.96
House Numbers		1,474.87
Bridge Department	4,510.66	
Amounts carried forward,	\$339,115.19	\$259,848.49

	Dr.	Cr.
Amounts brought forward.....	\$339,1159.19	\$259,848.49
Lake Street Bridge		6,800.00
Polk Street Bridge.....		30,000.00
Twelfth Street Bridge.....		30,000.00
Eighteenth Street Bridge		2,500.00
Kinzie Street Bridge.....		3,000.00
Chicago Avenue Bridge.....	5,159.74	
Adams Street Bridge.....		30,830.00
Dock Line Survey	17,894.72	
Lake Shore Roadway.....	808.84	
Samuel Polkey, Receiving Clerk.....	308.12	
Warrant 480 West.....		308.12
	<u>\$363,286.61</u>	<u>\$363,286.61</u>

BOARD OF PUBLIC WORKS APPROPRIATION FUND.

STATEMENT of the Cash Receipts by the Board of Public Works from April 1, 1867, to March 31, 1868, inclusive, and detailed statement of the cost of the various operations conducted by the Board during the same time:

RECEIPTS.

Amount appropriated by Common Council.....	\$652,046.40	
Received from Temporary Loans.....	126,820.47	
Received from assessments for labor and cost of proceedings	13,375.03	
House Moving and Street Permits.....	4,878.55	
Constructing sidewalks	5,103.62	
Sand and gravel sold	3,029.35	
Received for labor	1,752.39	
Received for House Numbers	757.50	
Received for paving	587.80	
Received for damages to bridges... ..	310.37	
Chicago & North-Western Railway for its proportion repairing State street Viaduct.....	766.67	
Received for removing bodies from Chicago Cemetery	149.00	
Received for Lumber	202.67	
Received for Bonds and Licenses	176.45	
Received for Stone.....	116.04	
Received for Old Iron.....	70.73	
Received for Lamp Posts	94.00	
Rent of lot opposite Cemetery.....	30.00	
Miscellaneous	15.00	
	<u>\$810,282.04</u>	
Balance in hand of City Treasurer April 1, 1867	<u>102,647.99</u>	<u>\$912,930.03</u>

EXPENDITURES.

		<i>Cash Payment.</i>	<i>True Cost.</i>
SOUTH DIVISION.			
Labor on streets, crossings and culverts..	\$ 56,616.48		
Cleaning streets by contract.....	11,997.21		
Lumber.....	9,072.53		
Stone	2,212.50		
Gravel.....	3,161.58		
Nails and spikes.....	895.25		
Street composition, 117 barrels	819.00		
Sawing paving blocks.....	644.57		
Cinders	772.75		
Interest on temporary loans.....	745.71		
Sprinkling front of Dearborn Park.....	240.00		
Level.....	100.00		
Tools	160.55		
Repairing tools.....	97.35		
Roller	30.00		
Surveying	30.00		
Miscellaneous	22.91		
	<hr/>	\$87,618.39	
DEDUCT—			
Received for paving	602.55		
Sand and gravel.....	143.40		
Labor	113.00		
	<hr/>		
	858.95		
ADD—			
Gravel from Cemetery....	6.25		
	<hr/>		
	852.70		\$86,765.69
WEST DIVISION.			
Labor	\$ 60,255.98		
Lumber	19,497.74		
Stone	2,835.95		
Nails and Spikes.....	2,282.10		
Cleaning streets by contract.....	1,653.65		
Cinders	373.25		
Painting lamp posts ...	364.50		
Tug and pile driver.....	180.00		
Lamp posts, lamps and setting.....	124.56		
Tools	201.49		
Repairing tools.....	152.40		
Engineer	103.25		
Interest on temporary loans.....	762.85		
	<hr/>		
Amounts carried forward,.....	\$88,787.72	\$87,618.39	\$86,765.69

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$88,787.72	\$87,618.39	\$86,765.69
Street signs	31.50		
Sawing lumber	33.20		
Roller.....	30.00		
Miscellaneous	30.27	88,912.69	
DEDUCT—			
Received for labor.....	\$ 424.70		
Received for lamp posts.....	94.00		
Lumber.....	202.67		
	\$721.37		\$88,191.32
NORTH DIVISION.			
Labor.....	\$ 26,665.49		
Lumber	6,409.22		
Stone.....	1,175.26		
Nails and spikes.....	675.75		
Cleaning streets by contract.....	1,033.64		
Tools	78.53		
Repairing tools.....	47.24		
Sand and gravel.....	168.00		
Interest on temporary loans.....	317.14		
Broken Brick	150.50		
Roller	30.00		
		36,750.77	
DEDUCT—			
Labor	29.00		36,721.77
CHICAGO CEMETERY.			
Lumber.....	326.42		
Constructing fence.....	135.40		
Nails.....	41.00		
Labor	1,245.73		
Gate Keeper	600.00		
Sand tickets.....	14.00		
Tools	7.25		
Receipts for sand refunded..	4.25		
Coal.....	12.50		
		2,386.55	
DEDUCT—			
Received for sand and gravel sold.....	2,892.20		
Removing bodies	149.00		
Labor on Milliman tract in 1866.....	971.00		
Rent of lot opposite Cemetery.....	30.00		
	4,042.20		
Amounts carried forward,.....		\$215,668.40	\$211,678.78

		Cash Payment.	True Cost.
Amounts brought forward,.....		\$215,668.40	\$211,678.78
HOUSE MOVING AND STREET PERMITS.			
Special constables	1,249.95		
Permit clerk	312.50		
Permits returned	10.00		
Printing blanks.....	41.00		
Constable's badge.....	2.00	1,615.45	
Received for permits	\$4,894.95		
LUMBER ACCOUNT.			
Lumber purchased and not used.....		630.00	630.00
STREET LAMPS.			
Six posts	\$86.70		
Setting Posts.....	105.25		
		191.95	191.95
DREDGING MAIN RIVER AND SOUTH BRANCH.			
Dredging 4,934 cubic yards.....	\$ 2,072.28		
Inspecting.....	37.50		
		2,109.78	2,109.78
DREDGING NORTH BRANCH.			
Fox & Howard, dredging.....	\$ 6,995.82		
Inspecting	96.00		
Advertising	15.50		
		7,107.32	7,107.32
NORTH DIVISION SIDEWALKS.			
Salary of superintendent	\$ 393.90		
Salary of inspectors.....	1,800.00		
Constructing walks	153.90		
Record Book.....	3.00		
		2,350.80	
DEDUCT—			
Received for constructing walks in 1866 and 1867	\$ 494.17		1,856.63
SOUTH DIVISION SIDEWALKS.			
Salary of superintendent.....	\$ 393.90		
Salary of inspectors.....	2,700.00		
Constructing walks.....	398.73		
Record book	3.00		
		3,495.63	
DEDUCT—			
Received for constructing walks in 1866 and 1867.....	\$632.04		2,863.59
WEST DIVISION SIDEWALKS.			
Salary of superintendent.....	\$ 393.90		
Salary of inspectors	2,850.00		
Amounts carried forward,	\$3,243.90	\$233,169.33	\$226,438.05

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....\$	3,243.90	\$233,169.33	\$226,438.05
Constructing walks.....	593.87		
Record book.....	3.00		
	<hr/>	3,840.77	
DEDUCT—			
Received for constructing walks in 1866 and 1867.....\$	3,977.41		
HOUSE NUMBERS.			
Salary number clerk.....\$	517.50		
Serving notices.....	150.00		
Map of Chicago.....	10.00		
Certificates and applications.....	18.00		
	<hr/>	695.50	
DEDUCT—			
Received for numbers.....\$	757.50		
DOCK LINE SURVEY.			
Engineers.....\$	1,509.66		
Rodmen.....	1,939.87		
Draughtsman.....	839.00		
Car fares.....	91.70		
Use of tug.....	50.00		
Drawing paper and materials.....	34.55		
Nails and hatchets.....	11.20		
Miscellaneous.....	4.35		
	<hr/>	4,480.33	4,480.33
LAKE SHORE ROADWAY.			
Engineer.....\$	157.00		
Rodmen.....	632.50		
Drawing paper.....	8.62		
Car fares.....	10.72		
	<hr/>	808.84	808.84
PUBLIC BUILDINGS.			
LAKE HOSPITAL.			
Labor on fence.....		12.50	12.50
COURT HOUSE AND SQUARE.			
Repairing cupola and roof.....\$	294.67		
Repairing fence.....	677.50		
Glazing.....	19.62		
Plumbing and gas fitting city clerk's office.	33.25		
Gas fitting at gateway.....	20.50		
Stone for walk.....	7.00		
	<hr/>	1,057.54	1,057.54
NORTH MARKET.			
Repairing.....\$	1,112.06		
Plastering.....	43.00		
Nails.....	21.00		
	<hr/>	1,176.06	1,176.06
Amounts carried forward,		\$245,240.87	\$233,973.32

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$245,240.87	\$233,973.32
BRIDEWELL.			
Lumber	\$ 453.31		
Nails	54.50		
Plumbing	93.30		
Gas fitting	333.90		
Repairs.....	32.29		
Wheelbarrows	15.00		
Walks	13.50		
Glazing	17.22		
Miscellaneous	9.55		
		1,022.57	1,022.57

ARMORY.			
Repairing cells.....	\$ 1,098.11		
Constructing drains	401.00		
Plumbing	152.95		
Walk and fence	135.00		
Caulking floors.....	90.00		
Plastering	57.50		
Ashes	33.00		
Ventilator	19.80		
Tin Work.....	8.70		
Glazing.....	12.28		
Hardware .....	.40		
Fire Department	18.67		
		2,030.41	2,030.41

PUBLIC PARKS.

LINCOLN PARK.			
Nelson & Benson, on contract for improv- ing park	\$ 10,562.69		
Swain Nelson, balance of contract	5,864.19		
S. Nelson & Co., account transplanting trees, cutting grass, &c ..	1,000.00		
Trees	790.50		
Constructing fence	725.41		
Lumber	498.32		
Nails	51.25		
Superintendent	242.50		
Hinges, screws and staples	6.37		
Advertising	15.50		
Labor	2.50		
		19,759.23	19,759.23
Amounts carried forward,.....		\$268,053.08	\$256,785.53

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$268,053.08	\$256,785.53
DEARBORN PARK.			
Labor.....	\$470.25		
Painting fence	275.00		
Grass seed	5.63		
		750.88	750.88
WASHINGTON PARK.			
Labor	\$70.99		
Constructing walk.....	223.88		
Plans and specifications.....	50.00		
		344.87	344.87
UNION PARK.			
Nelson & Benson, on account excavating lakes.....	\$765.00		
Constructing drains	1,940.21		
Pipe for drains.....	1,612.10		
Brick for catch basins.....	163.80		
Covers for man holes....	152.50		
Labor	4,746.45		
Trees.....	3,204.00		
Superintendent	537.50		
Inspector	112.00		
Constructing walk and fence.....	948.26		
Macadam and stone screenings	2,880.29		
Tools	72.98		
Ashes	17.50		
Advertising for proposals....	51.50		
Watering trees	56.00		
Lumber	95.16		
Miscellaneous	7.16		
		17,362.41	17,362.41
LAKE PARK.			
Engineer.....	\$52.55		
Rodmen	255.13		
Labor constructing fence and walk..	968.67		
Lumber and posts	767.30		
Spikes	37.50		
Filling.....	2,927.31		
Inspecting	316.67		
Labor	14.25		
Chain and oar	3.50		
		5,342.88	5,342.88
JEFFERSON PARK.			
Labor	\$529.57		
Lumber and Posts.....	29.08		
Constructing fence..	42.22		
Amounts carried forward.....	\$600.87	\$291,854.12	\$280,586.57

		<i>Cash Payment.</i>	<i>True Cost</i>
Amounts brought forward,.....	\$600 87	\$291,854.12	\$280,586.57
Trees	246.00		
Tools	7.80		
Grass seed.....	5.75		
		860.42	860.42

CHICAGO HARBOR.

Dredging	\$ 6,606.60		
Harbor Master, including horse keeping and sundries	1,599.96		
Inspecting dredging	226.96		
Labor at Ogden Slip.....	165.00		
Removing obstructions.....	375.00		
Setting buoy	98.00		
Light house keeper at pier.....	87.87		
Oil, chimnies and glass for pier light	43.25		
Sounding harbor.....	524.75		
Roofing at Rush street	57.80		
Repairing dock at Adams street	135.00		
Advertising	84.69		
Express on life boat.....	12.80		
Repairing life boat.....	12.75		
Draughtsman	40.00		
Carpenter work.....	13.88		
Police badges	12.00		
Rope	18.37		
Lumber	10.22		
Signs	8.25		
		10,133.15	10,133.15

BRIDGE DEPARTMENT.

Carpenter work.....	\$ 12,346.64		
Lumber.....	6,587.05		
Nails and spikes.....	1,256.11		
Blacksmith work	613.47		
Assistant superintendent....	1,650.00		
Driving piles.....	870.20		
Chimnies, lanterns, lamps and repairs on same	591.75		
Oakum, rope, cordage and oars....	126.01		
Coal	371.75		
Advertising for proposals.....	161.63		
Iron	125.21		
Chain.....	260.91		
Tools	97.88		
Painting	242.53		
Amounts carried forward,.....	\$25,311.14	\$302,847.69	\$291,580.14

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$25,301.14	\$302,847.69	\$291,580.14
Oil	830.19		
Gas pipe at Madison street	102.00		
Stove and pipe.....	148 08		
Damage to vessel.....	87.03		
Jack screws.....	68.00		
Signal balls.....	342.00		
Clock cases	63.00		
Use of tugs	103.00		
Cleaning reflectors	80.00		
Pipe, plunges, pumps and cans	45.95		
Pails and brooms	27.00		
Hardware.. ..	85.80		
Lignumvitæ sheaves	19.80		
Express	22.00		
Bell	10.00		
Windows.	18.50		
Car fares and miscellaneous expenses....	45.95		
		27,399.44	
DEDUCT—			
Received for labor and materials for			
Lake street bridge.....	\$ 6,550.00		
Received for damages to bridges.....	209.87		
Old iron sold.....	70.73		
Labor	39.56		
	\$6,870.16		20,529.28
RUSH STREET BRIDGE.			
Tending bridge	\$ 2,180.00		
Cut stone and labor.....	394.08		
Repairing pier protection	25.00		
Blacksmith work.....	28.90		
		2,627.98	2,627.98
STATE STREET BRIDGE.			
Tending bridge	\$ 1,960.00		
Lumber.....	704.76		
Painting	321.45		
Gas fitting.....	170.45		
		3,156.66	
DEDUCT—			
Amount received from Chicago & North-			
Western Railway Co.....	\$766.67		2,389.99
CLARK STREET BRIDGE.			
Tending bridge.....	\$ 1,940.00		
Lumber	227.50		
Painting	375.00		
Two lamp posts.....	68.00		
		2,610.55	2,610.55
Amounts carried forward,		\$338,642.32	\$319,737.94

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....		\$338,642.32	\$319,737.94
WELLS STREET BRIDGE.			
Tending bridge	\$ 1,940.00		
Lumber	297.30		
Roofing.....	68.22		
Felt and composition	74.20		
	<hr/>	2,379.72	2,379.72
LAKE STREET BRIDGE.			
Fox & Howard, constructing new bridge.\$	11,450.00		
Tending bridge	1,780.00		
Lumber.....	934.76		
Damages to schooner Muskingum.....	80.00		
	<hr/>	14,244.76	14,244.76
RANDOLPH STREET BRIDGE.			
Tending bridge	\$ 1,780.00		
Lumber	231.00		
Damages to schooner Hirondelee.....	117.78		
	<hr/>	2,128.78	2,128.78
MADISON STREET BRIDGE.			
Tending bridge	\$ 1,700.00		
Drilling stone	37.00		
Plastering bridge house.....	62.47		
	<hr/>	1,799.47	1,799.47
VAN BUREN STREET BRIDGE.			
Fox & Howard, constructing new bridge.\$	18,270.00		
“ extra on west approach..	283.60		
Temporary loan.....	3,500.00		
Masonry on center pier.....	126.00		
Stone for approach.....	195.00		
Labor on approach by city laborers.....	115.35		
Interest on temporary loan.....	175.00		
Inspector	159.70		
Painting	401.80		
Lumber.....	112.45		
Tending bridge.....	1,660.00		
	<hr/>	24,998.90	
DEDUCT—			
Received from temporary loans.\$	3,500.00		
Received for damage by vessel.	100.50		
	<hr/>	3,600.50	21,398.40
POLK STREET BRIDGE.			
Tending bridge	\$ 1,600.00		
Repairing bridge	444.08		
	<hr/>		
Amounts carried forward,.....	\$2,044.08	\$384,193.95	\$361,689.07

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$2,044.08	384,193.95	\$361,689.07
Lumber.....	27.53		
Bell	10.00		
Sash	2.25		
	<hr/>	2,083.86	2,083.86
TWELFTH STREET BRIDGE.			
Tending bridge	\$ 1,600.00		
Blacksmith work	72.41		
Lumber.....	10.50		
	<hr/>	1,682.91	1,682.91
EIGHTEENTH STREET BRIDGE.			
Fox & Howard, on account of new bridge.\$	27,500.00		
Repairing old bridge.....	271.10		
Towing bridge	65.00		
Advertising for proposals	39.88		
Lumber.....	32.50		
Machine work.....	14.17		
Bell stand.....	6.04		
Tending bridge.....	1,600.00		
	<hr/>	29,528.69	29,528.69
HALSTED STREET BRIDGE.			
Tending bridge.....		1,460.00	1,460.00
ARCHER ROAD BRIDGE.			
Tending bridge.....		520.00	520.00
FULLER STREET BRIDGE.			
Tending bridge.....		520.00	520.00
REUBEN STREET BRIDGE.			
Tending bridge.....\$	200.00		
Lumber	199.07		
	<hr/>	399.07	399.07
KINZIE STREET BRIDGE.			
Tending bridge.....	\$ 1,580.00		
Lamp post.....	68.00		
	<hr/>	1,648.00	1,648.00
INDIANA STREET BRIDGE.			
Tending bridge.....\$	1,460.00		
Lumber.....	122.68		
	<hr/>	1,582.68	1,582.68
ERIE STREET BRIDGE.			
Tending bridge	\$ 1,380.00		
Iron drum.....	77.12		
Lumber.....	17.40		
	<hr/>	1,474.52	1,474.52
Amounts carried forward,.....		\$425,093.68	\$402,588.80

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward		\$425,093.68	\$402,588.80
CHICAGO AVENUE BRIDGE.			
Fox & Howard, constructing new bridge.	\$ 26,400.00		
“ extra labor and materials..	759.74		
Lumber	32.33		
Copper wire	2.80		
Tending bridge	1,380.00		
		28,574.87	28,574.87
NORTH AVENUE BRIDGE.			
Tending bridge.....	\$ 780.00		
Lumber	6.93		
		786.93	786.93
CLYBOURN AVENUE BRIDGE.			
Tending bridge		\$520.00	520.00
NORTH HALSTED STREET BRIDGE.			
Tending bridge	\$940.00		
Painting bridge	250.00		
Building bridge house	165.67		
Stove and pipe	20.53		
		1,376.20	1,376.20
OFFICE EXPENSES AND SALARIES.			
Salaries of Commissioners	\$3,000.00		
Salary of Secretary.....	933.32		
Salary of City Engineer.....	1,500.00		
Salaries of Book-keeper and Assistant ...	1,073.30		
Salary of Superintendent	899.99		
Salaries of Assistant Engineers	5,827.33		
Salaries of Clerks	2,412.60		
Salaries of Special Assessment Clerks....	7,967.32		
Salaries of Draughtsmen.....	3,140.10		
Messenger, Janitor and Watchman.....	458.00		
Office rent	2,124.51		
Temporary loans.....	116,520.47		
Advertising	8,090.42		
Blank books and stationery	609.53		
Printing blanks, assessments and notices .	731.61		
Furniture	475.04		
Coal and kindling wood	250.16		
Repairs	126.48		
Commissioners' oaths.....	109.50		
Postage and revenue stamps	80.33		
Copy of objections to assessments by Superior Court	50.00		
Safe	70.00		
Map books.....	90.00		
Amounts carried forward,.....	\$156,540.01	\$456,351.68	\$433,346.80

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward.....	\$156,540.01	\$456,351.68	\$483,846.80
Painting, graining, varnishing and signs..	75.59		
Plumbing and gas fitting	83.77		
Awnings	71.68		
Hardware, locks, keys and tape measure..	77.95		
Books and paper.....	41.37		
Pigeon holes and boxes.....	30.19		
Gas	53.05		
Repairing surveying instruments.....	49.25		
Storing and repairing stoves.....	29.85		
Ice.....	22.31		
Map of Chicago.....	10.00		
Sprinkling front of office.....	15.00		
Draughtsman's tools.....	7.70		
Cleaning office and washing towels.....	61.81		
Miscellaneous	173.93		
		157,343.46	

DEDUCT—

Received from temporary loans.....	\$116,520.47		
Labor and costs on special assessments.	13,375.03		
Licenses and bonds.....	160.05		
Damages to lamp post	15.00		
	\$130,070.55		27,272.91

INTERSECTION OF STREETS.

Paving Wabash av., Randolph to 22d st..	\$2,225.33		
Paving Milwaukee avenue.....	23,450.78		
Paving North Clark street	16,948.98		
Paving South Clark street	2,264.53		
Paving La Salle street, Madison to Van Buren street	6,405.50		
Paving Wabash avenue, South Water to Randolph street	2,823.71		
Paving Monroe street....	636.85		
Paving Clinton street.....	3,233.77		
Paving Kinzie street	6,241.38		
Paving Indiana avenue	2,070.01		
Paving Halsted street.....	7,000.00		
Paving Wells street, Lake to Randolph ..	683.75		
Paving Wells st., Van Buren to Taylor ...	1,691.93		
Paving Canal street	2,313.17		
Paving La Salle street, Washington to Madison	263.68		
Paving Griswold street	740.00		
Paving Sherman street	162.86		

Amounts carried forward.....	\$ 79,156.23	\$613,695.14	\$461,119.71
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		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$79,156.23	\$613,695.14	\$461,119.71
Paving intersection Lake st. and Wabash avenue	824.75		
Paving intersection River street and Mich- igan avenue.....	241.00		
Paving intersection West Madison and Halsted streets	1,814.00		
Paving South Water st., Clark to Frank- lin street.....	112.91		
Paving South Water st., Wabash avenue to Michigan av	28.69		
Macadamizing Halsted street, Archer av. to 31st street.....	508.16		
Macadamizing Halsted street, 31st street to Egan avenue.....	1,508.60		
Macadamizing Canal street.....	982.99		
Macadamizing Division and Wolcott streets	1,088.91		
Macadamizing Chicago avenue	5,100.00		
Macadamizing Market street.....	5,363.65		
Graveling Rush street.....	1,624.42		
Graveling Michigan avenue, Park place to 12th street	193.86		
Graveling Michigan avenue, 12th street to 22d street	4,589.53		
Planking West Twelfth street.....	184.10		
Planking Haddock Place.....	24.21		
Planking Alley, Block 7, Fort Dearborn Addition.....	43.41		
Planking West 22d street, Center avenue to Reuben street.....	904.50		
Planking West 22d street, Center avenue to Morgan street.....	707.95		
Planking alleys from 14th st. to 16th st., between State st. and Wabash av.....	153.23		
Cindering Archer road.....	695.98		
Cindering Noble street and Elston road...	860.02		
Filling Alley, Block 33, O. T.....	18.00		
On account of Wells street viaduct	6,000.00		
Labor raising catch basins	5,394.38		
Cement for catch basins	1,224.90		
Lumber for catch basins	323.26		
Interest on loans	1,028.56		
		<u>120,700.20</u>	
Amounts carried forward,.....		\$734,395.34	\$461,119.71

	<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward	\$734,395.34	\$461,119.71
DEDUCT—		
Over charge for labor refunded.....	<u>\$160.38</u>	<u>120,539.82</u>
Total cash expenditures	<u>\$734,395.34</u>	<u>\$581,659.53</u>
Balance in hand of City Treasurer		
April 1, 1868	178,534.69	
	<u><u>\$912,930.03</u></u>	<u> </u>

WASHINGTON STREET TUNNEL DEPARTMENT.

Trial Balance, Ledger, Board of Public Works.

	DR.	CR.
Washington Street Tunnel Bonds.....		\$155,000.00
Discount on bonds	\$8,895.18	
Washington St. Tunnel Funds in hands of Treasurer	20,799.68	
Tunnel miscellaneous expenses.....	28,105.19	
James K. Lake & Co	76,615.38	
Stewart, Ludlam & Co.....	20,584.57	
	<u>\$155,000.00</u>	<u>\$155,000.00</u>

WASHINGTON STREET TUNNEL FUND.

STATEMENT of the Cash Receipts of the Board of Public Works
from April 1, 1867, to March 31, 1868, inclusive, and detailed
statement of the cost of the various operations conducted by
the Board during the same time:

RECEIPTS.

Proceeds of 130 Municipal Bonds sold....	\$121,385.96		
Voucher canceled	500.00		
		121,885.96	
Balance on hand April 1, 1867		5,460.51	\$127,346.47

EXPENDITURES.

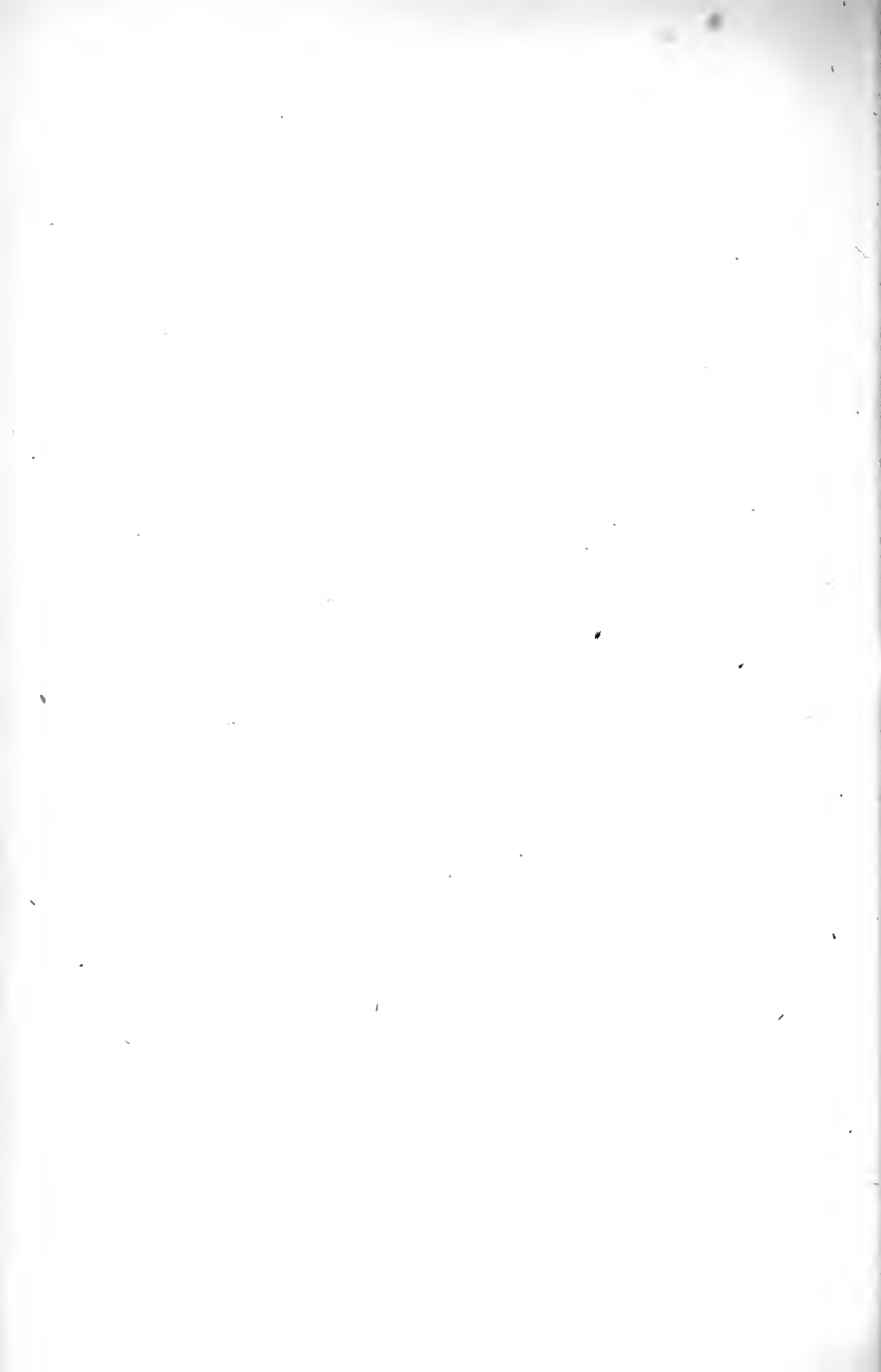
CONTRACTORS.

		<i>Cash Payment.</i>	<i>True Cost.</i>
Stewart, Ludlam & Co.....	\$4,948.87		
James K. Lake & Co	76,615.38		
		81,564.25	81,564.25

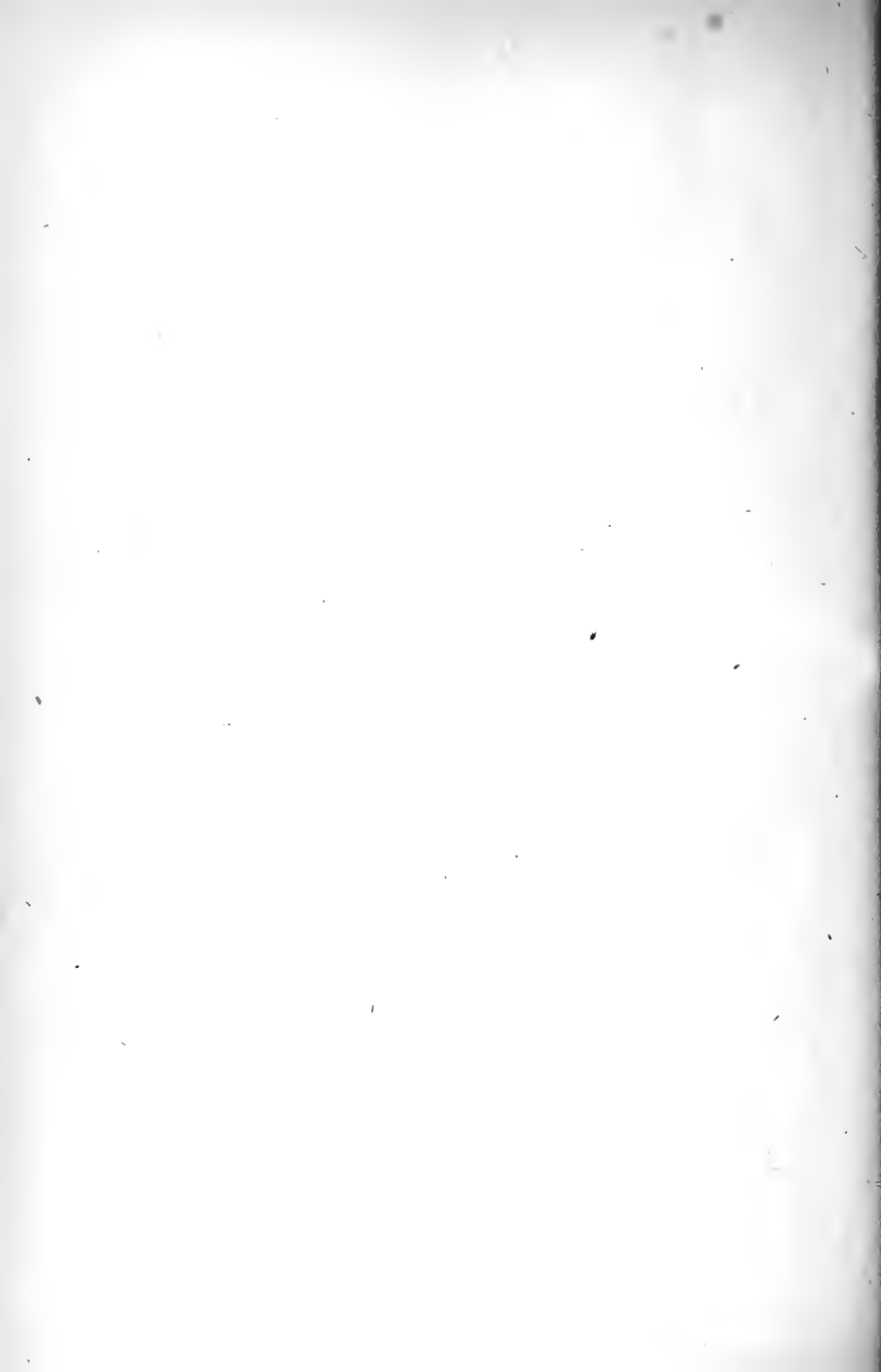
MISCELLANEOUS EXPENSES.

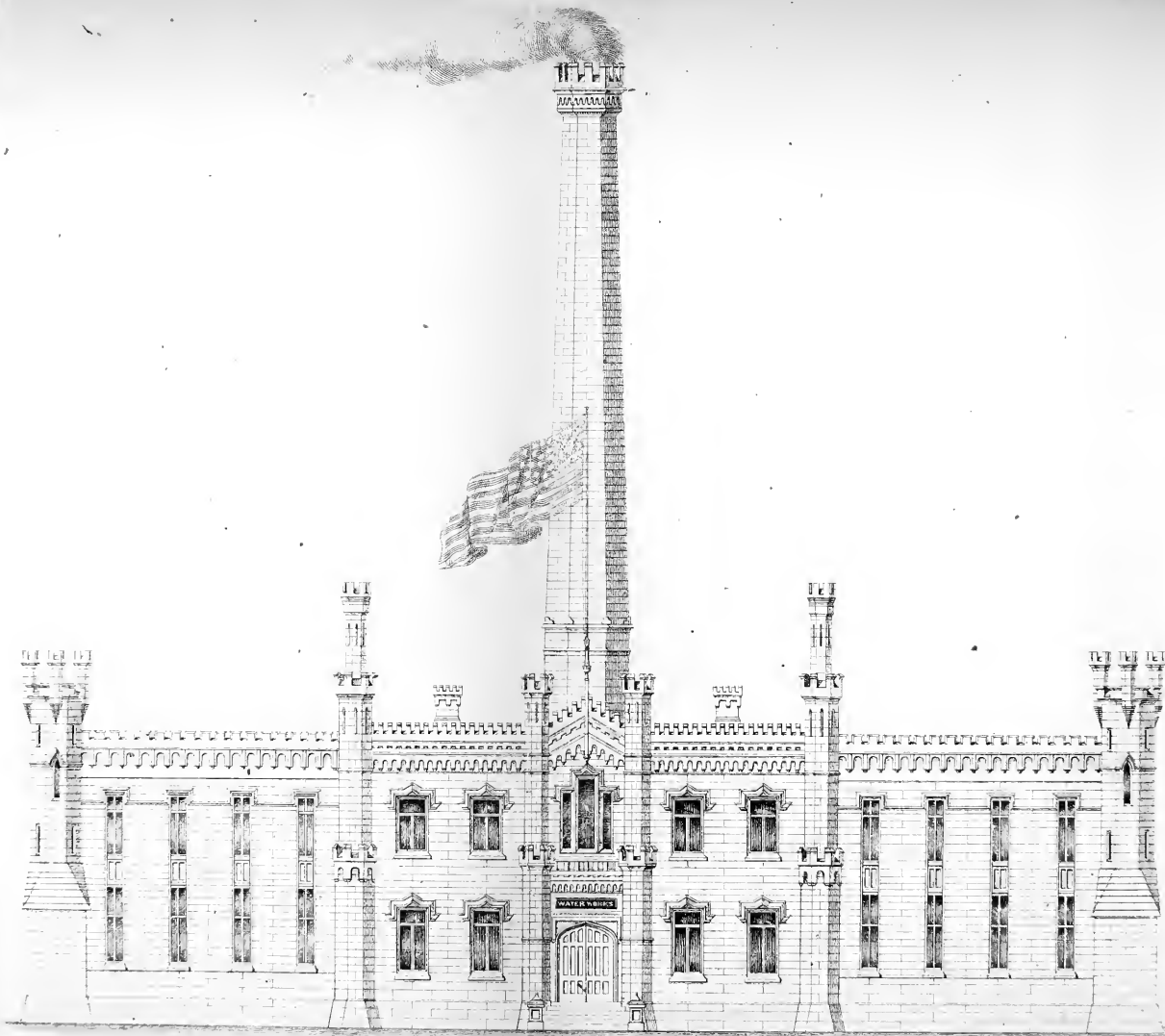
Damages to lots on account of tunnel....	\$8,294.50		
Constructing curb wall	3,815.70		
Salary Assistant Engineer.....	2,199.96		
Assistant Harbor Master	1,461.20		
Draughtsman	890.07		
Labor.	1,252.42		
Inspectors and rodmen.....	2,832.25		
Rent of dock.....	2,000.00		
Lumber	1,023.16		
Advertising for proposals	174.02		
Pipe and fittings	288.23		
Engraving bonds	139.30		
Repairing gas pipe	123.11		
Nails and hardware.....	76.93		
Drawing materials	60.13		
Disinfectants	59.00		
Amounts carried forward,	\$24,689.98	\$81,564.25	\$81,564.25

		<i>Cash Payment.</i>	<i>True Cost.</i>
Amounts brought forward,.....	\$24,689.98	\$81,564.25	\$81,564.25
Specifications	48.50		
Iron work.....	15.55		
Cement.....	15.75		
Repairing warehouse.....	15.00		
Use of tug.....	10.00		
Express, telegram and expense of sale of bonds.....	62.01		
Miscellaneous ..	125.75		
	<hr/>	24,982.54	
DEDUCT—			
Amount of voucher issued, canceled...	\$500.00		
	<hr/>		24,482.54
Total expenditures		\$106,546.79	\$106,046.79
Balance on hand April 1, 1868.....		20,799.68	
		<hr/>	
		\$127,346.47	
		<hr/>	



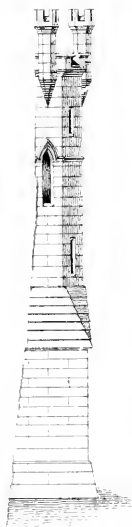






Engr. by Chas. Scheraga Chicago Ill.

VIEW OF PUMPING WORKS 1869.





TD
25
C5
A3
7th (1868)
RARE



